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**GENE PRODUCTS DIFFERENTIALLY EXPRESSED IN CANCEROUS COLON
CELLS AND THEIR METHODS OF USE**

CROSS-REFERENCE TO RELATED APPLICATIONS

- [0001]** This application claims the benefit of prior U.S. Provisional Application Serial No. 60/270,855, filed February 21, 2001, which application is incorporated herein by reference.

SEQUENCE LISTING

- [0002]** A Sequence Listing is provided as part of this specification on duplicate compact discs, which compact discs named "Copy 1" and "Copy 2", each of which compact discs contain the following file: "SEQLIST.TXT", created February 21, 2002, 800 kilobytes, which are incorporated herein by reference in their entirety.

FIELD OF THE INVENTION

- [0003]** The present invention relates to polynucleotides of human origin and the encoded gene products that are differentially expressed in colon cancer cells.

BACKGROUND OF THE INVENTION

- [0004]** Cancer, like many diseases, is not the result of a single, well-defined cause, but rather can be viewed as several diseases, each caused by different aberrations in informational pathways, that ultimately result in apparently similar pathologic phenotypes. Identification of polynucleotides that correspond to genes that are differentially expressed in cancerous, pre-cancerous, or low metastatic potential cells relative to normal cells of the same tissue type, provides the basis for diagnostic tools, facilitates drug discovery by providing for targets for candidate agents, and further serves to identify therapeutic targets for cancer therapies that are more tailored for the type of cancer to be treated.

[0005] Identification of differentially expressed gene products also furthers the understanding of the progression and nature of complex diseases such as cancer, and is key to identifying the genetic factors that are responsible for the phenotypes associated with development of, for example, the metastatic phenotype. Identification of gene products that are differentially expressed at various stages, and in various types of cancers, can both provide for early diagnostic tests, and further serve as therapeutic targets and the basis for screening assays to identify chemotherapeutic agents that modulate the activity (*e.g.*, expression, biological activity, and the like) of the gene product of the differentially expressed gene.

[0006] Early disease diagnosis, especially in diseases such as cancer, is of central importance to halting disease progression, and reducing morbidity. Analysis of a patient's tumor to identify the gene products that are differentially expressed, and administration of therapeutic agent(s) designed to modulate the activity of those differentially expressed gene products, provides the basis for more specific, rational cancer therapy, which therapy may result in diminished adverse side effects relative to conventional therapies. Furthermore, confirmation that a tumor poses less risk to the patient (*e.g.*, that the tumor is benign) can avoid unnecessary therapies. In short, identification of genes and the encoded gene products that are differentially expressed in cancerous cells can provide the basis of therapeutics, diagnostics, prognostics, therametrics, and the like.

[0007] In exemplary aspects, the invention described herein provides colon cancer diagnostics, prognostics, therametrics, and therapeutics based upon polynucleotides and/or their encoded gene products.

SUMMARY OF THE INVENTION

[0008] The present invention provides methods and compositions useful in detection of cancerous cells, identification of agents that modulate the phenotype of cancerous cells, and identification of therapeutic targets for chemotherapy of cancerous cells. Cancerous colon cells are of particular interest in each of these aspects of the invention. More

specifically, the invention provides polynucleotides, as well as polypeptides encoded thereby, that are differentially expressed in colon cancer cells. These polynucleotides and polypeptides are thus useful in a variety of diagnostic, therapeutic, and drug discovery methods. In some embodiments, a polynucleotide that is differentially expressed in colon cancer cells can be used in diagnostic assays to detect colon cancer cells. In other embodiments, a polynucleotide that is differentially expressed in colon cancer cells, and/or a polypeptide encoded thereby, is itself a target for therapeutic intervention.

[0009] Accordingly, in one aspect the invention provides a method for detecting a cancerous colon cell comprising contacting a sample obtained from a test colon cell with a probe for detection of a gene product of a gene differentially expressed in colon cancer, wherein the gene comprises a sequence selected from the group consisting of SEQ ID NOS: 1-1303, and where contacting is for a time sufficient for binding of the probe to the gene product; and comparing a level of binding of the probe to the sample with a level of probe binding to a control sample obtained from a control colon cell, wherein the control colon cell is of known cancerous state. An increased level of binding of the probe in the test colon cell sample relative to the level of binding in a control sample is indicative of the cancerous state of the test colon cell. In specific embodiments, the probe is a polynucleotide probe and the gene product is nucleic acid. In other specific embodiments, the gene product is a polypeptide. In further embodiments, the gene product or the probe is immobilized on an array.

[0010] In another aspect, the invention provides a method for assessing the cancerous phenotype (*e.g.*, metastasis, aberrant cellular proliferation, and the like) of a colon cell comprising detecting expression of a gene product in a test colon cell sample, wherein the gene comprises a sequence selected from the group consisting of SEQ ID NOS: 1-1303; and comparing a level of expression of the gene product in the test colon cell sample with a level of expression of the gene in a control cell sample. Comparison of the level of expression of the gene in the test cell sample relative to the level of expression in the control cell sample is indicative of the cancerous phenotype of the test cell sample. In specific embodiments, detection of expression of the gene is by detecting a level of an

RNA transcript in the test cell sample. In other specific embodiments detection of expression of the gene is by detecting a level of a polypeptide in a test sample.

[0011] In another aspect, the invention provides a method for suppressing or inhibiting a cancerous phenotype of a cancerous cell, the method comprising introducing into a mammalian cell an antisense polynucleotide for inhibition of expression of a gene comprising a sequence selected from the group consisting of SEQ ID NOS: 1-1303. Inhibition of expression of the gene inhibits development of a cancerous phenotype in the cell. In specific embodiments, the cancerous phenotype is metastasis, aberrant cellular proliferation relative to a normal cell, or loss of contact inhibition of cell growth.

[0012] In another aspect, the invention provides a method for assessing the tumor burden of a subject, the method comprising detecting a level of a differentially expressed gene product in a test sample from a subject suspected of or having a tumor, the differentially expressed gene product comprising a sequence selected from the group consisting of SEQ ID NOS: 1-1303. Detection of the level of the gene product in the test sample is indicative of the tumor burden in the subject.

[0013] In another aspect, the invention provides a method for identifying a gene product as a target for a cancer therapeutic, the method comprising contacting a cancerous cell expressing a candidate gene product with an anti-cancer agent, wherein the candidate gene product corresponds to a sequence selected from the group consisting of SEQ ID NOS: 1-1303; and analyzing the effect of the anti-cancer agent upon a biological activity of the candidate gene product and upon a cancerous phenotype of the cancerous cell. Modulation of the biological activity of the candidate gene product and modulation of the cancerous phenotype of the cancerous cell indicates the candidate gene product is a target for a cancer therapeutic. In specific embodiments, the cancerous cell is a cancerous colon cell. In other specific embodiments, the inhibitor is an antisense oligonucleotide. In further embodiments, the cancerous phenotype is aberrant cellular proliferation relative to a normal cell, or colony formation due to loss of contact inhibition of cell growth.

[0014] In another aspect, the invention provides a method for identifying agents that decrease biological activity of a gene product differentially expressed in a cancerous cell,

the method comprising contacting a candidate agent with a differentially expressed gene product, the differentially expressed gene product corresponding to a sequence selected from the group consisting of SEQ ID NOS: 1-1303; and detecting a decrease in a biological activity of the gene product relative to a level of biological activity of the gene product in the absence of the candidate agent. In specific embodiments, the detecting is by detection of a decrease in expression of the differentially expressed gene product. In other specific embodiments, the gene product is mRNA or cDNA prepared from the mRNA gene product. In further embodiments, the gene product is a polypeptide.

[0015] In another aspect, the invention provides a method of inhibiting growth of a tumor cell by modulating expression of a gene product, where the gene product is encoded by a gene identified by a sequence selected from the group consisting of: SEQ ID NOS:1-1303.

[0016] These and other objects, advantages, and features of the invention will become apparent to those persons skilled in the art upon reading the details of the invention as more fully described below.

DETAILED DESCRIPTION OF THE INVENTION

[0017] Before the present invention is described, it is to be understood that this invention is not limited to particular embodiments described, as such may, of course, vary. It is also to be understood that the terminology used herein is for the purpose of describing particular embodiments only, and is not intended to be limiting.

[0018] Unless defined otherwise, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs. Although any methods and materials similar or equivalent to those described herein can be used in the practice or testing of the present invention, the preferred methods and materials are now described. All publications and patent applications mentioned herein are incorporated herein by reference to disclose and describe the methods and/or materials in connection with which the publications are cited.

[0019] It must be noted that as used herein and in the appended claims, the singular forms "a", "and", and "the" include plural referents unless the context clearly dictates otherwise. Thus, for example, reference to "a polynucleotide" includes a plurality of such polynucleotides and reference to "the colon cancer cell" includes reference to one or more cells and equivalents thereof known to those skilled in the art, and so forth.

[0020] The publications and applications discussed herein are provided solely for their disclosure prior to the filing date of the present application. Nothing herein is to be construed as an admission that the present invention is not entitled to antedate such publication by virtue of prior invention. Further, the dates of publication provided may be different from the actual publication dates which may need to be independently confirmed.

Definitions

[0021] The terms "polynucleotide" and "nucleic acid", used interchangeably herein, refer to a polymeric forms of nucleotides of any length, either ribonucleotides or deoxynucleotides. Thus, these terms include, but are not limited to, single-, double-, or multi-stranded DNA or RNA, genomic DNA, cDNA, DNA-RNA hybrids, or a polymer comprising purine and pyrimidine bases or other natural, chemically or biochemically modified, non-natural, or derivatized nucleotide bases. These terms further include, but are not limited to, mRNA or cDNA that comprise intronic sequences (see, *e.g.*, Niwa et al. (1999) *Cell* 99(7):691-702). The backbone of the polynucleotide can comprise sugars and phosphate groups (as may typically be found in RNA or DNA), or modified or substituted sugar or phosphate groups. Alternatively, the backbone of the polynucleotide can comprise a polymer of synthetic subunits such as phosphoramidites and thus can be an oligodeoxynucleoside phosphoramidate or a mixed phosphoramidate-phosphodiester oligomer. Peyrottes *et al.* (1996) *Nucl. Acids Res.* 24:1841-1848; Chaturvedi *et al.* (1996) *Nucl. Acids Res.* 24:2318-2323. A polynucleotide may comprise modified nucleotides, such as methylated nucleotides and nucleotide analogs, uracyl, other sugars, and linking groups such as fluororibose and thioate, and nucleotide branches. The

sequence of nucleotides may be interrupted by non-nucleotide components. A polynucleotide may be further modified after polymerization, such as by conjugation with a labeling component. Other types of modifications included in this definition are caps, substitution of one or more of the naturally occurring nucleotides with an analog, and introduction of means for attaching the polynucleotide to proteins, metal ions, labeling components, other polynucleotides, or a solid support.

[0022] The terms "polypeptide" and "protein", used interchangeably herein, refer to a polymeric form of amino acids of any length, which can include coded and non-coded amino acids, chemically or biochemically modified or derivatized amino acids, and polypeptides having modified peptide backbones. The term includes fusion proteins, including, but not limited to, fusion proteins with a heterologous amino acid sequence, fusions with heterologous and homologous leader sequences, with or without N-terminal methionine residues; immunologically tagged proteins; and the like.

[0023] "Heterologous" means that the materials are derived from different sources (*e.g.*, from different genes, different species, etc.).

[0024] As used herein, the terms "a gene that is differentially expressed in a colon cancer cell," and "a polynucleotide that is differentially expressed in a colon cancer cell" are used interchangeably herein, and generally refer to a polynucleotide that represents or corresponds to a gene that is differentially expressed in a cancerous colon cell when compared with a cell of the same cell type that is not cancerous, *e.g.*, mRNA is found at levels at least about 25%, at least about 50% to about 75%, at least about 90%, at least about 1.5-fold, at least about 2-fold, at least about 5-fold, at least about 10-fold, or at least about 50-fold or more, different (*e.g.*, higher or lower). The comparison can be made in tissue, for example, if one is using in situ hybridization or another assay method that allows some degree of discrimination among cell types in the tissue. The comparison may also or alternatively be made between cells removed from their tissue source.

[0025] "Differentially expressed polynucleotide" as used herein refers to a nucleic acid molecule (RNA or DNA) comprising a sequence that represents a differentially expressed gene, *e.g.*, the differentially expressed polynucleotide comprises a sequence (*e.g.*, an open

reading frame encoding a gene product; a non-coding sequence) that uniquely identifies a differentially expressed gene so that detection of the differentially expressed polynucleotide in a sample is correlated with the presence of a differentially expressed gene in a sample. "Differentially expressed polynucleotides" is also meant to encompass fragments of the disclosed polynucleotides, *e.g.*, fragments retaining biological activity, as well as nucleic acids homologous, substantially similar, or substantially identical (*e.g.*, having about 90% sequence identity) to the disclosed polynucleotides.

[0026] "Corresponds to" or "represents" when used in the context of, for example, a polynucleotide or sequence that "corresponds to" or "represents" a gene means that a sequence of the polynucleotide is present in the gene or in the nucleic acid gene product (*e.g.*, mRNA). The polynucleotide may be wholly present within an exon of a genomic sequence of the gene, or different portions of the sequence of the polynucleotide may be present in different exons (*e.g.*, such that the contiguous polynucleotide sequence is present in an mRNA, either pre- or post-splicing, that is an expression product of the gene). In some embodiments, the polynucleotide may represent or correspond to a gene that is modified in a cancerous cell relative to a normal cell. For example, the gene in the cancerous cell may be modified by insertion of an endogenous retrovirus, a transposable element, or other naturally occurring or non-naturally occurring nucleic acid. In such cases, the polynucleotide may include sequences of both the native gene (*e.g.*, the gene without the heterologous sequence) and the inserted, non-native sequence.

[0027] "Diagnosis" as used herein generally includes determination of a subject's susceptibility to a disease or disorder, determination as to whether a subject is presently affected by a disease or disorder, prognosis of a subject affected by a disease or disorder (*e.g.*, identification of pre-metastatic or metastatic cancerous states, stages of cancer, or responsiveness of cancer to therapy), and use of therapeutics (*e.g.*, monitoring a subject's condition to provide information as to the effect or efficacy of therapy).

[0028] As used herein, the term "a polypeptide associated with colon cancer" refers to a polypeptide encoded by a polynucleotide that is differentially expressed in a colon cancer cell.

- [0029] The term "biological sample" encompasses a variety of sample types obtained from an organism and can be used in a diagnostic or monitoring assay. The term encompasses blood and other liquid samples of biological origin, solid tissue samples, such as a biopsy specimen or tissue cultures or cells derived therefrom and the progeny thereof. The term encompasses samples that have been manipulated in any way after their procurement, such as by treatment with reagents, solubilization, or enrichment for certain components. The term encompasses a clinical sample, and also includes cells in cell culture, cell supernatants, cell lysates, serum, plasma, biological fluids, and tissue samples.
- [0030] The terms "treatment", "treating", "treat" and the like are used herein to generally refer to obtaining a desired pharmacologic and/or physiologic effect. The effect may be prophylactic in terms of completely or partially preventing a disease or symptom thereof and/or may be therapeutic in terms of a partial or complete stabilization or cure for a disease and/or adverse effect attributable to the disease. "Treatment" as used herein covers any treatment of a disease in a mammal, particularly a human, and includes: (a) preventing the disease or symptom from occurring in a subject which may be predisposed to the disease or symptom but has not yet been diagnosed as having it; (b) inhibiting the disease symptom, i.e., arresting its development; or (c) relieving the disease symptom, i.e., causing regression of the disease or symptom.
- [0031] The terms "individual," "subject," "host," and "patient," used interchangeably herein and refer to any mammalian subject for whom diagnosis, treatment, or therapy is desired, particularly humans. Other subjects may include cattle, dogs, cats, guinea pigs, rabbits, rats, mice, horses, and the like.
- [0032] As used herein the term "isolated" refers to a polynucleotide, a polypeptide, an antibody, or a host cell that is in an environment different from that in which the polynucleotide, the polypeptide, the antibody, or the host cell naturally occurs. A polynucleotide, a polypeptide, an antibody, or a host cell which is isolated is generally substantially purified. As used herein, the term "substantially purified" refers to a compound (*e.g.*, either a polynucleotide or a polypeptide or an antibody) that is removed

from its natural environment and is at least 60% free, preferably 75% free, and most preferably 90% free from other components with which it is naturally associated. Thus, for example, a composition containing A is "substantially free of" B when at least 85% by weight of the total A+B in the composition is A. Preferably, A comprises at least about 90% by weight of the total of A+B in the composition, more preferably at least about 95% or even 99% by weight.

[0033] A "host cell", as used herein, refers to a microorganism or a eukaryotic cell or cell line cultured as a unicellular entity which can be, or has been, used as a recipient for a recombinant vector or other transfer polynucleotides, and include the progeny of the original cell which has been transfected. It is understood that the progeny of a single cell may not necessarily be completely identical in morphology or in genomic or total DNA complement as the original parent, due to natural, accidental, or deliberate mutation.

[0034] The terms "cancer", "neoplasm", "tumor", and "carcinoma", are used interchangeably herein to refer to cells which exhibit relatively autonomous growth, so that they exhibit an aberrant growth phenotype characterized by a significant loss of control of cell proliferation. In general, cells of interest for detection or treatment in the present application include precancerous (*e.g.*, benign), malignant, pre-metastatic, metastatic, and non-metastatic cells. Detection of cancerous cell is of particular interest.

[0035] The term "normal" as used in the context of "normal cell," is meant to refer to a cell of an untransformed phenotype or exhibiting a morphology of a non-transformed cell of the tissue type being examined.

[0036] "Cancerous phenotype" generally refers to any of a variety of biological phenomena that are characteristic of a cancerous cell, which phenomena can vary with the type of cancer. The cancerous phenotype is generally identified by abnormalities in, for example, cell growth or proliferation (*e.g.*, uncontrolled growth or proliferation), regulation of the cell cycle, cell mobility, or cell-cell interaction.

[0037] "Therapeutic target" generally refers to a gene or gene product that, upon modulation of its activity (*e.g.*, by modulation of expression, biological activity, and the like), can provide for modulation of the cancerous phenotype.

[0038] As used throughout, "modulation" is meant to refer to an increase or a decrease in the indicated phenomenon (*e.g.*, modulation of a biological activity refers to an increase in a biological activity or a decrease in a biological activity).

POLYNUCLEOTIDE COMPOSITIONS

[0039] The present invention provides isolated polynucleotides that represent genes that are differentially expressed in colon cancer cells. The polynucleotides, as well as polypeptides encoded thereby, find use in a variety of therapeutic and diagnostic methods.

[0040] The scope of the invention with respect to polynucleotide compositions useful in the methods described herein includes, but is not necessarily limited to, polynucleotides having a sequence set forth in any one of the polynucleotide sequences provided herein; polynucleotides obtained from the biological materials described herein or other biological sources (particularly human sources) by hybridization under stringent conditions (particularly conditions of high stringency); genes corresponding to the provided polynucleotides; cDNAs corresponding to the provided polynucleotides; variants of the provided polynucleotides and their corresponding genes, particularly those variants that retain a biological activity of the encoded gene product (*e.g.*, a biological activity ascribed to a gene product corresponding to the provided polynucleotides as a result of the assignment of the gene product to a protein family(ies) and/or identification of a functional domain present in the gene product). Other nucleic acid compositions contemplated by and within the scope of the present invention will be readily apparent to one of ordinary skill in the art when provided with the disclosure here. "Polynucleotide" and "nucleic acid" as used herein with reference to nucleic acids of the composition is not intended to be limiting as to the length or structure of the nucleic acid unless specifically indicated.

[0041] The invention features polynucleotides that represent genes that are expressed in human tissue, specifically human colon tissue, particularly polynucleotides that are differentially expressed in colon cancer cells. Nucleic acid compositions described

herein of particular interest comprise a sequence set forth in any one of the polynucleotide sequences provided herein or an identifying sequence thereof. An "identifying sequence" is a contiguous sequence of residues at least about 10 nt to about 20 nt in length, usually at least about 50 nt to about 100 nt in length, that uniquely identifies a polynucleotide sequence, its complements and degenerate variants thereof, *e.g.*, exhibits less than 90%, usually less than about 80% to about 85% sequence identity to any contiguous nucleotide sequence of more than about 20 nt. Thus, the subject nucleic acid compositions include full-length cDNAs or mRNAs that encompass an identifying sequence of contiguous nucleotides from any one of the polynucleotide sequences provided herein.

[0042] The polynucleotides useful in the methods described herein also include polynucleotides having sequence similarity or sequence identity. Nucleic acids having sequence similarity are detected by hybridization under low stringency conditions, for example, at 50°C and 10XSSC (0.9 M saline/0.09 M sodium citrate) and remain bound when subjected to washing at 55°C in 1XSSC. Sequence identity can be determined by hybridization under high stringency conditions, for example, at 50°C or higher and 0.1XSSC (9 mM saline/0.9 mM sodium citrate). Hybridization methods and conditions are well known in the art, see, *e.g.*, USPN 5,707,829. Nucleic acids that are substantially identical to the provided polynucleotide sequences, *e.g.* allelic variants, genetically altered versions of the gene, *etc.*, bind to the provided polynucleotide sequences under stringent hybridization conditions. By using probes, particularly labeled probes of DNA sequences, one can isolate homologous or related genes. The source of homologous genes can be any species, *e.g.* primate species, particularly human; rodents, such as rats and mice; canines, felines, bovines, ovines, equines, yeast, nematodes, *etc.*

[0043] In one embodiment, hybridization is performed using at least 15 contiguous nucleotides (nt) of at least one of the polynucleotide sequences provided herein. That is, when at least 15 contiguous nt of one of the disclosed polynucleotide sequences is used as a probe, the probe will preferentially hybridize with a nucleic acid comprising the complementary sequence, allowing the identification and retrieval of the nucleic acids

that uniquely hybridize to the selected probe. Probes from more than one polynucleotide sequences provided herein can hybridize with the same nucleic acid if the cDNA from which they were derived corresponds to one mRNA. Probes of more than 15 nt can be used, e.g., probes of a size within the range of about 18 nt, 25 nt, 50 nt, 75 nt or 100 nt, but in general about 15 nt represents sufficient sequence for unique identification.

[0044] Polynucleotides contemplated for use in the invention also include naturally occurring variants of the nucleotide sequences (*e.g.*, degenerate variants (*e.g.*, sequences that encode the same polypeptides but, due to the degenerate nature of the genetic code, different in nucleotide sequence), allelic variants, *etc.*). Variants of the polynucleotides contemplated by the invention are identified by hybridization of putative variants with nucleotide sequences disclosed herein, preferably by hybridization under stringent conditions. For example, by using appropriate wash conditions, variants of the polynucleotides described herein can be identified where the allelic variant exhibits at most about 25-30% base pair (bp) mismatches relative to the selected polynucleotide probe. In general, allelic variants contain 15-25% bp mismatches, and can contain as little as even 5-15%, or 2-5%, or 1-2% bp mismatches, as well as a single bp mismatch.

[0045] The invention also encompasses homologs corresponding to any one of the polynucleotide sequences provided herein, where the source of homologous genes can be any mammalian species, *e.g.*, primate species, particularly human; rodents, such as rats; canines, felines, bovines, ovines, equines, yeast, nematodes, *etc.* Between mammalian species, *e.g.*, human and mouse, homologs generally have substantial sequence similarity, *e.g.*, at least 75% sequence identity, usually at least 90%, more usually at least 95% between nucleotide sequences. Sequence similarity is calculated based on a reference sequence, which may be a subset of a larger sequence, such as a conserved motif, coding region, flanking region, *etc.* A reference sequence will usually be at least about 18 contiguous nt long, more usually at least about 30 nt long, and may extend to the complete sequence that is being compared. Algorithms for sequence analysis are known in the art, such as gapped BLAST, described in Altschul, et al. *Nucleic Acids Res.* (1997) 25:3389-3402, or TeraBLAST available from TimeLogic Corp. (Crystal Bay, Nevada).

[0046] In general, variants of the polynucleotides described herein have a sequence identity greater than at least about 65%, preferably at least about 75%, more preferably at least about 85%, and can be greater than at least about 90%, 95%, 96%, 97%, 98%, 99% or more as determined by the Smith-Waterman homology search algorithm as implemented in MPSRCH program (Oxford Molecular). For the purposes of this invention, a preferred method of calculating percent identity is the Smith-Waterman algorithm. Global DNA sequence identity must be greater than 65% as determined by the Smith-Waterman homology search algorithm as implemented in MPSRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty, 12; and gap extension penalty, 1.

[0047] The subject nucleic acids can be cDNAs or genomic DNAs, as well as fragments thereof, particularly fragments that encode a biologically active gene product and/or are useful in the methods disclosed herein (*e.g.*, in diagnosis, as a unique identifier of a differentially expressed gene of interest, *etc.*). The term "cDNA" as used herein is intended to include all nucleic acids that share the arrangement of sequence elements found in native mature mRNA species, where sequence elements are exons and 3' and 5' non-coding regions. Normally mRNA species have contiguous exons, with the intervening introns, when present, being removed by nuclear RNA splicing, to create a continuous open reading frame encoding a polypeptide. mRNA species can also exist with both exons and introns, where the introns may be removed by alternative splicing. Furthermore it should be noted that different species of mRNAs encoded by the same genomic sequence can exist at varying levels in a cell, and detection of these various levels of mRNA species can be indicative of differential expression of the encoded gene product in the cell.

[0048] A genomic sequence of interest comprises the nucleic acid present between the initiation codon and the stop codon, as defined in the listed sequences, including all of the introns that are normally present in a native chromosome. It can further include the 3' and 5' untranslated regions found in the mature mRNA. It can further include specific transcriptional and translational regulatory sequences, such as promoters, enhancers, *etc.*,

including about 1 kb, but possibly more, of flanking genomic DNA at either the 5' and 3' end of the transcribed region. The genomic DNA can be isolated as a fragment of 100 kbp or smaller; and substantially free of flanking chromosomal sequence. The genomic DNA flanking the coding region, either 3' and 5', or internal regulatory sequences as sometimes found in introns, contains sequences required for proper tissue, stage-specific, or disease-state specific expression.

[0049] The nucleic acid compositions of the subject invention can encode all or a part of the naturally-occurring polypeptides. Double or single stranded fragments can be obtained from the DNA sequence by chemically synthesizing oligonucleotides in accordance with conventional methods, by restriction enzyme digestion, by PCR amplification, *etc.* Isolated polynucleotides and polynucleotide fragments contemplated by the invention comprise at least about 10, about 15, about 20, about 35, about 50, about 75, about 100, about 150 to about 200, about 250 to about 300, or about 350 contiguous nt selected from the polynucleotide provided herein. For the most part, fragments will be of at least 15 nt, usually at least 18 nt or 25 nt, and up to at least about 50 contiguous nt in length or more. In a preferred embodiment, the polynucleotide molecules comprise a contiguous sequence of at least 12 nt selected from any one of the polynucleotide sequences provided herein.

[0050] Probes specific to the polynucleotides described herein can be generated using the polynucleotide sequences disclosed herein. The probes are preferably at least about a 12 nt, 15 nt, 16 nt, 18 nt, 20 nt, 22 nt, 24 nt, or 25 nt fragment of a corresponding contiguous sequence any one of the polynucleotide sequences provided herein, and can be less than 10kb, 5kb, 4kb, 3kb, 2 kb, 1 kb, 0.5 kb, 0.1 kb, or 0.05 kb in length. The probes can be synthesized chemically or can be generated from longer polynucleotides using restriction enzymes. The probes can be labeled, for example, with a radioactive, biotinylated, or fluorescent tag. Preferably, probes are designed based upon an identifying sequence of any one of the polynucleotide sequences provided herein. More preferably, probes are designed based on a contiguous sequence of one of the subject polynucleotides that remain unmasked following application of a masking program for masking low

complexity (*e.g.*, XBLAST, RepeatMasker, etc.) to the sequence., *i.e.*, one would select an unmasked region, as indicated by the polynucleotides outside the poly-n stretches of the masked sequence produced by the masking program.

[0051] The polynucleotides of interest in the subject invention are isolated and obtained in substantial purity, generally as other than an intact chromosome. Usually, the polynucleotides, either as DNA or RNA, will be obtained substantially free of other naturally-occurring nucleic acid sequences, generally being at least about 50%, usually at least about 90% pure and are typically "recombinant", *e.g.*, flanked by one or more nucleotides with which it is not normally associated on a naturally occurring chromosome.

[0052] The polynucleotides described herein can be provided as a linear molecule or within a circular molecule, and can be provided within autonomously replicating molecules (vectors) or within molecules without replication sequences. Expression of the polynucleotides can be regulated by their own or by other regulatory sequences known in the art. The polynucleotides can be introduced into suitable host cells using a variety of techniques available in the art, such as transferrin polycation-mediated DNA transfer, transfection with naked or encapsulated nucleic acids, liposome-mediated DNA transfer, intracellular transportation of DNA-coated latex beads, protoplast fusion, viral infection, electroporation, gene gun, calcium phosphate-mediated transfection, and the like.

[0053] The nucleic acid compositions described herein can be used to, for example, produce polypeptides, as probes for the detection of mRNA in biological samples (*e.g.*, extracts of human cells) or cDNA produced from such samples, to generate additional copies of the polynucleotides, to generate ribozymes or antisense oligonucleotides, and as single stranded DNA probes or as triple-strand forming oligonucleotides. The probes described herein can be used to, for example, determine the presence or absence of any one of the polynucleotide provided herein or variants thereof in a sample. These and other uses are described in more detail below.

POLYPEPTIDES AND VARIANTS THEREOF

[0054] The present invention further provides polypeptides encoded by polynucleotides that represent genes that are differentially expressed in colon cancer cells. Such polypeptides are referred to herein as “polypeptides associated with colon cancer.” The polypeptides can be used to generate antibodies specific for a polypeptide associated with colon cancer, which antibodies are in turn useful in diagnostic methods, prognostics methods, therametric methods, and the like as discussed in more detail herein. Polypeptides are also useful as targets for therapeutic intervention, as discussed in more detail herein.

[0055] The polypeptides contemplated by the invention include those encoded by the disclosed polynucleotides and the genes to which these polynucleotides correspond, as well as nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope a polypeptide encoded by a polynucleotide having the sequence of any one of the polynucleotide sequences provided herein, or a variant thereof.

[0056] In general, the term “polypeptide” as used herein refers to both the full length polypeptide encoded by the recited polynucleotide, the polypeptide encoded by the gene represented by the recited polynucleotide, as well as portions or fragments thereof. “Polypeptides” also includes variants of the naturally occurring proteins, where such variants are homologous or substantially similar to the naturally occurring protein, and can be of an origin of the same or different species as the naturally occurring protein (*e.g.*, human, murine, or some other species that naturally expresses the recited polypeptide, usually a mammalian species). In general, variant polypeptides have a sequence that has at least about 80%, usually at least about 90%, and more usually at least about 98% sequence identity with a differentially expressed polypeptide described herein, as measured by TeraBLAST using the parameters described above. The variant polypeptides can be naturally or non-naturally glycosylated, *i.e.*, the polypeptide has a glycosylation pattern that differs from the glycosylation pattern found in the corresponding naturally occurring protein.

- [0057] The invention also encompasses homologs of the disclosed polypeptides (or fragments thereof) where the homologs are isolated from other species, *i.e.* other animal or plant species, where such homologs, usually mammalian species, *e.g.* rodents, such as mice, rats; domestic animals, *e.g.*, horse, cow, dog, cat; and humans. By “homolog” is meant a polypeptide having at least about 35%, usually at least about 40% and more usually at least about 60% amino acid sequence identity to a particular differentially expressed protein as identified above, where sequence identity is determined using the TeraBLAST algorithm, with the parameters described *supra*.
- [0058] In general, the polypeptides of interest in the subject invention are provided in a non-naturally occurring environment, *e.g.* are separated from their naturally occurring environment. In certain embodiments, the subject protein is present in a composition that is enriched for the protein as compared to a control. As such, purified polypeptide is provided, where by purified is meant that the protein is present in a composition that is substantially free of non-differentially expressed polypeptides, where by substantially free is meant that less than 90%, usually less than 60% and more usually less than 50% of the composition is made up of non-differentially expressed polypeptides.
- [0059] Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/ hydrophilicity, and/or steric bulk of the amino acid substituted.
- [0060] Variants can be designed so as to retain or have enhanced biological activity of a particular region of the protein (*e.g.*, a functional domain and/or, where the polypeptide is a member of a protein family, a region associated with a consensus sequence). Selection of amino acid alterations for production of variants can be based upon the accessibility (interior vs. exterior) of the amino acid (*see, e.g., Go et al, Int. J. Peptide Protein Res.*

(1980) 15:211), the thermostability of the variant polypeptide (*see, e.g., Querol et al., Prot. Eng.* (1996) 9:265), desired glycosylation sites (*see, e.g., Olsen and Thomsen, J. Gen. Microbiol.* (1991) 137:579), desired disulfide bridges (*see, e.g., Clarke et al., Biochemistry* (1993) 32:4322; and Wakarchuk *et al., Protein Eng.* (1994) 7:1379), desired metal binding sites (*see, e.g., Toma et al., Biochemistry* (1991) 30:97, and Haezebrouck *et al., Protein Eng.* (1993) 6:643), and desired substitutions with in proline loops (*see, e.g., Masul et al., Appl. Env. Microbiol.* (1994) 60:3579). Cysteine-depleted muteins can be produced as disclosed in USPN 4,959,314.

[0061] Variants also include fragments of the polypeptides disclosed herein, particularly biologically active fragments and/or fragments corresponding to functional domains. Fragments of interest will typically be at least about 10 aa to at least about 15 aa in length, usually at least about 50 aa in length, and can be as long as 300 aa in length or longer, but will usually not exceed about 1000 aa in length, where the fragment will have a stretch of amino acids that is identical to a polypeptide encoded by a polynucleotide having a sequence of any one of the polynucleotide sequences provided herein, or a homolog thereof. The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

ANTIBODIES AND OTHER POLYPEPTIDE OR POLYNUCLEOTIDE BINDING MOLECULES

[0062] The present invention further provides antibodies, which may be isolated antibodies, that are specific for a polypeptide encoded by a polynucleotide described herein and/or a polypeptide of a gene that corresponds to a polynucleotide described herein. Antibodies can be provided in a composition comprising the antibody and a buffer and/or a pharmaceutically acceptable excipient. Antibodies specific for a polypeptide associated with colon cancer are useful in a variety of diagnostic and therapeutic methods, as discussed in detail herein.

[0063] Gene products, including polypeptides, mRNA (particularly mRNAs having distinct secondary and/or tertiary structures), cDNA, or complete gene, can be prepared

and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. For polynucleotides to which a corresponding gene has not been assigned, this provides an additional method of identifying the corresponding gene. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polypeptide encoded by the polynucleotide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

[0064] Methods for production of antibodies that specifically bind a selected antigen are well known in the art. Immunogens for raising antibodies can be prepared by mixing an antigen (*e.g.*, polypeptide) with an adjuvant, and/or by making fusion proteins with larger immunogenic proteins. Antigens (*e.g.*, polypeptides) can also be covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally, subcutaneously, or intramuscularly to experimental animals such as rabbits, sheep, and mice, to generate antibodies. Monoclonal antibodies can be generated by isolating spleen cells and fusing myeloma cells to form hybridomas. Alternatively, a polynucleotide encoding an antigen of interest is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein antigen generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

[0065] Preparations of polyclonal and monoclonal antibodies specific for an antigen (*e.g.*, polypeptide) are made using standard methods known in the art. For example, the antibodies can be produced so as to specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. Epitopes that involve non-contiguous amino acids may require a longer polypeptide, *e.g.*, at least 15, 25, or 50 amino acids. Antibodies that specifically bind to human polypeptides encoded by the provided polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. In one embodiment, antibodies that specifically

bind polypeptides contemplated by the invention do not bind to other proteins in immunochemical assays at detectable levels and can immunoprecipitate the specific polypeptide from solution.

[0066] The invention also contemplates naturally occurring antibodies. For example, serum antibodies to a polypeptide of interest in a human population can be purified by methods well known in the art, e.g., by passing antiserum over a column to which the corresponding selected polypeptide or fusion protein is bound. The bound antibodies can then be eluted from the column, for example using a buffer with a high salt concentration.

[0067] The invention also contemplates genetically engineered antibodies (e.g., chimeric antibodies, humanized antibodies, human antibodies produced by a transgenic animal (e.g., a transgenic mouse such as the XenomousTM), antibody derivatives (e.g., single chain antibodies, antibody fragments (e.g., Fab, etc.)), according to methods well known in the art.

[0068] The invention also contemplates other molecules that can specifically bind a polynucleotide or polypeptide of the invention. Examples of such molecules include, but are not necessarily limited to, single-chain binding proteins (e.g., mono- and multi-valent single chain antigen binding proteins (see, e.g., U.S. Patent Nos. 4,704,692; 4,946,778; 4,946,778; 6,027,725; 6,121,424)), oligonucleotide-based synthetic antibodies (e.g., oligobodies (see, e.g., Radrizzani *et al.*, *Medicina* (B Aires) (1999) 59:753-8; Radrizzani *et al.*, *Medicina* (B Aires) (2000) 60(Suppl 2):55-60)), aptamers (see, e.g., Gening *et al.*, *Biotechniques* (2001) 3:828, 830, 832, 834; Cox and Ellington, *Bioorg. Med. Chem.* (2001) 9:2525-31), and the like.

COMPUTER-RELATED EMBODIMENTS

[0069] In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (e.g., as a collection of polynucleotide molecules), or in electronic form (e.g., as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the polynucleotides can be used in a

variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. For example, in the instant case, the sequences of polynucleotides and polypeptides corresponding to genes differentially expressed in cancer, particular in colon cancer, as well as the nucleic acid and amino acid sequences of the genes themselves, can be provided in electronic form in a computer database.

[0070] In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of the same or similar type that is not substantially affected by disease). For example, a polynucleotide sequence in a library can be a polynucleotide that represents an mRNA, polypeptide, or other gene product encoded by the polynucleotide, that is either overexpressed or underexpressed in a cancerous colon cell affected by cancer relative to a normal (*i.e.*, substantially disease-free) colon cell.

[0071] The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, i) a cancerous cell and a normal cell; ii) a cancerous cell and a dysplastic cell; iii) a cancerous cell and a cell affected by a disease or condition other than cancer; iv) a metastatic cancerous cell and a normal cell and/or non-metastatic cancerous cell; v) a malignant cancerous cell and a non-malignant cancerous cell (or a normal cell) and/or vi) a dysplastic cell relative to a normal cell. Other combinations and comparisons of cells affected by various diseases or stages of disease will be readily apparent to the ordinarily skilled artisan. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in greater detail below.

[0072] The polynucleotide libraries of the subject invention generally comprise sequence

information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of sequence described herein. By plurality is meant at least 2, usually at least 3 and can include up to all of the sequences described herein. The length and number of polynucleotides in the library will vary with the nature of the library, *e.g.*, if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

[0073] Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture, other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.* the nucleic acid sequences of any of the polynucleotides of the sequences described herein, can be recorded on computer readable media, *e.g.* any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media.

[0074] One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access the stored information. A variety of data processor programs and formats can be used for storage, *e.g.* word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of libraries comprising one or more sequence described herein can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*, including, but not limited to, for example, search program software,

etc.).

[0075] By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the gapped BLAST (Altschul *et al.*, *Nucleic Acids Res.* (1997) 25:3389-3402) and BLAZE (Brutlag *et al.*, *Comp. Chem.* (1993) 17:203) search algorithms on a Sybase system, or the TeraBLAST (TimeLogic, Crystal Bay, Nevada) program optionally running on a specialized computer platform available from TimeLogic, can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

[0076] As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

[0077] "Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly known and commercially available, *e.g.* MacPattern (EMBL), TeraBLAST (TimeLogic), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze target sequences, target motifs, or relative expression levels) with

the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are also known in the art.

[0078] A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

[0079] A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile. A gene expression profile can be generated from, for example, a cDNA library prepared from mRNA isolated from a test cell suspected of being cancerous or pre-cancerous, comparing the sequences or partial sequences of the clones against the sequences in an electronic database, where the sequences of the electronic database represent genes differentially expressed in a cancerous cell, *e.g.*, a cancerous colon cell. The number of clones having a sequence that has substantial similarity to a sequence that represents a gene differentially expressed in a cancerous cell is then determined, and the number of clones corresponding to each of such genes is determined. An increased number of clones that correspond to differentially expressed gene is present in the cDNA library of the test cell (relative to, for example, the number of clones expected in a cDNA of a normal cell) indicates that the test cell is cancerous.

[0080] As discussed above, the “library” as used herein also encompasses biochemical libraries of the polynucleotides of the sequences described herein, *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of the genes described herein is represented by a sequence on the array. By array is meant an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

[0081] In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the polypeptides of the library will represent at least a portion of the polypeptides encoded by a gene corresponding to a sequence described herein.

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DIAGNOSTIC AND OTHER METHODS INVOLVING DETECTION OF DIFFERENTIALLY EXPRESSED GENES

[0082] The present invention provides methods of using the polynucleotides described herein in, for example, diagnosis of cancer and classification of cancer cells according to expression profiles. In specific non-limiting embodiments, the methods are useful for detecting colon cancer cells, facilitating diagnosis of cancer and the severity of a cancer (*e.g.*, tumor grade, tumor burden, and the like) in a subject, facilitating a determination of the prognosis of a subject, and assessing the responsiveness of the subject to therapy (*e.g.*, by providing a measure of therapeutic effect through, for example, assessing tumor burden during or following a chemotherapeutic regimen). Detection can be based on detection of a polynucleotide that is differentially expressed in a colon cancer cell, and/or

detection of a polypeptide encoded by a polynucleotide that is differentially expressed in a colon cancer cell ("a polypeptide associated with colon cancer"). The detection methods of the invention can be conducted *in vitro* or *in vivo*, on isolated cells, or in whole tissues or a bodily fluid, *e.g.*, blood, plasma, serum, urine, and the like).

[0083] In general, methods of the invention involving detection of a gene product (*e.g.*, mRNA, cDNA generated from such mRNA, and polypeptides) involve contacting a sample with a probe specific for the gene product of interest. "Probe" as used herein in such methods is meant to refer to a molecule that specifically binds a gene product of interest (*e.g.*, the probe binds to the target gene product with a specificity sufficient to distinguish binding to target over non-specific binding to non-target (background) molecules). "Probes" include, but are not necessarily limited to, nucleic acid probes (*e.g.*, DNA, RNA, modified nucleic acid, and the like), antibodies (*e.g.*, antibodies, antibody fragments that retain binding to a target epitope, single chain antibodies, and the like), or other polypeptide, peptide, or molecule (*e.g.*, receptor ligand) that specifically binds a target gene product of interest.

[0084] The probe and sample suspected of having the gene product of interest are contacted under conditions suitable for binding of the probe to the gene product. For example, contacting is generally for a time sufficient to allow binding of the probe to the gene product (*e.g.*, from several minutes to a few hours), and at a temperature and conditions of osmolarity and the like that provide for binding of the probe to the gene product at a level that is sufficiently distinguishable from background binding of the probe (*e.g.*, under conditions that minimize non-specific binding). Suitable conditions for probe-target gene product binding can be readily determined using controls and other techniques available and known to one of ordinary skill in the art.

[0085] In this embodiment, the probe can be an antibody or other polypeptide, peptide, or molecule (*e.g.*, receptor ligand) that specifically binds a target polypeptide of interest.

[0086] The detection methods can be provided as part of a kit. Thus, the invention further provides kits for detecting the presence and/or a level of a polynucleotide that is differentially expressed in a colon cancer cell (*e.g.*, by detection of an mRNA encoded by

the differentially expressed gene of interest), and/or a polypeptide encoded thereby, in a biological sample. Procedures using these kits can be performed by clinical laboratories, experimental laboratories, medical practitioners, or private individuals. The kits of the invention for detecting a polypeptide encoded by a polynucleotide that is differentially expressed in a colon cancer cell comprise a moiety that specifically binds the polypeptide, which may be a specific antibody. The kits of the invention for detecting a polynucleotide that is differentially expressed in a colon cancer cell comprise a moiety that specifically hybridizes to such a polynucleotide. The kit may optionally provide additional components that are useful in the procedure, including, but not limited to, buffers, developing reagents, labels, reacting surfaces, means for detection, control samples, standards, instructions, and interpretive information.

Detecting a polypeptide encoded by a polynucleotide that is differentially expressed in a colon cancer cell

[0087] In some embodiments, methods are provided for a colon cancer cell by detecting in the cell a polypeptide encoded by a gene differentially expressed in a colon cancer cell. Any of a variety of known methods can be used for detection, including, but not limited to, immunoassay, using antibody specific for the encoded polypeptide, e.g., by enzyme-linked immunosorbent assay (ELISA), radioimmunoassay (RIA), and the like; and functional assays for the encoded polypeptide, e.g., binding activity or enzymatic activity.

[0088] For example, an immunofluorescence assay can be easily performed on cells without first isolating the encoded polypeptide. The cells are first fixed onto a solid support, such as a microscope slide or microtiter well. This fixing step can permeabilize the cell membrane. The permeabilization of the cell membrane permits the polypeptide-specific probe (*e.g.*, antibody) to bind. Alternatively, where the polypeptide is secreted or membrane-bound, or is otherwise accessible at the cell-surface (*e.g.*, receptors, and other molecule stably-associated with the outer cell membrane or otherwise stably associated with the cell membrane, such permeabilization may not be necessary.

[0089] Next, the fixed cells are exposed to an antibody specific for the encoded polypeptide. To increase the sensitivity of the assay, the fixed cells may be further

exposed to a second antibody, which is labeled and binds to the first antibody, which is specific for the encoded polypeptide. Typically, the secondary antibody is detectably labeled, e.g., with a fluorescent marker. The cells which express the encoded polypeptide will be fluorescently labeled and easily visualized under the microscope. See, for example, Hashido *et al.* (1992) *Biochem. Biophys. Res. Comm.* 187:1241-1248.

[0090] As will be readily apparent to the ordinarily skilled artisan upon reading the present specification, the detection methods and other methods described herein can be readily varied. Such variations are within the intended scope of the invention. For example, in the above detection scheme, the probe for use in detection can be immobilized on a solid support, and the test sample contacted with the immobilized probe. Binding of the test sample to the probe can then be detected in a variety of ways, e.g., by detecting a detectable label bound to the test sample to facilitate detection of test sample-immobilized probe complexes.

[0091] The present invention further provides methods for detecting the presence of and/or measuring a level of a polypeptide in a biological sample, which polypeptide is encoded by a polynucleotide that represents a gene differentially expressed in cancer, particularly in a colon cancer cell, using a probe specific for the encoded polypeptide. In this embodiment, the probe can be an antibody or other polypeptide, peptide, or molecule (e.g., receptor ligand) that specifically binds a target polypeptide of interest.

[0092] The methods generally comprise: a) contacting the sample with an antibody specific for a differentially expressed polypeptide in a test cell; and b) detecting binding between the antibody and molecules of the sample. The level of antibody binding (either qualitative or quantitative) indicates the cancerous state of the cell. For example, where the differentially expressed gene is increased in cancerous cells, detection of an increased level of antibody binding to the test sample relative to antibody binding level associated with a normal cell indicates that the test cell is cancerous.

[0093] Suitable controls include a sample known not to contain the encoded polypeptide; and a sample contacted with an antibody not specific for the encoded polypeptide, e.g., an anti-idiotypic antibody. A variety of methods to detect specific antibody-antigen

interactions are known in the art and can be used in the method, including, but not limited to, standard immunohistological methods, immunoprecipitation, an enzyme immunoassay, and a radioimmunoassay.

[0094] In general, the specific antibody will be detectably labeled, either directly or indirectly. Direct labels include radioisotopes; enzymes whose products are detectable (e.g., luciferase, β -galactosidase, and the like); fluorescent labels (e.g., fluorescein isothiocyanate, rhodamine, phycoerythrin, and the like); fluorescence emitting metals, e.g., ^{152}Eu , or others of the lanthanide series, attached to the antibody through metal chelating groups such as EDTA; chemiluminescent compounds, e.g., luminol, isoluminol, acridinium salts, and the like; bioluminescent compounds, e.g., luciferin, aequorin (green fluorescent protein), and the like.

[0095] The antibody may be attached (coupled) to an insoluble support, such as a polystyrene plate or a bead. Indirect labels include second antibodies specific for antibodies specific for the encoded polypeptide ("first specific antibody"), wherein the second antibody is labeled as described above; and members of specific binding pairs, e.g., biotin-avidin, and the like. The biological sample may be brought into contact with and immobilized on a solid support or carrier, such as nitrocellulose, that is capable of immobilizing cells, cell particles, or soluble proteins. The support may then be washed with suitable buffers, followed by contacting with a detectably-labeled first specific antibody. Detection methods are known in the art and will be chosen as appropriate to the signal emitted by the detectable label. Detection is generally accomplished in comparison to suitable controls, and to appropriate standards.

[0096] In some embodiments, the methods are adapted for use *in vivo*, e.g., to locate or identify sites where colon cancer cells are present. In these embodiments, a detectably-labeled moiety, e.g., an antibody, which is specific for a colon cancer-associated polypeptide is administered to an individual (e.g., by injection), and labeled cells are located using standard imaging techniques, including, but not limited to, magnetic resonance imaging, computed tomography scanning, and the like. In this manner, colon cancer cells are differentially labeled.

Detecting a polynucleotide that represents a gene differentially expressed in a colon cancer cell

- [0097] In some embodiments, methods are provided for detecting a colon cancer cell by detecting expression in the cell of a transcript or that is differentially expressed in a colon cancer cell. Any of a variety of known methods can be used for detection, including, but not limited to, detection of a transcript by hybridization with a polynucleotide that hybridizes to a polynucleotide that is differentially expressed in a colon cancer cell; detection of a transcript by a polymerase chain reaction using specific oligonucleotide primers; *in situ* hybridization of a cell using as a probe a polynucleotide that hybridizes to a gene that is differentially expressed in a colon cancer cell.
- [0098] The methods can be used to detect and/or measure mRNA levels of a gene that is differentially expressed in a colon cancer cell. In some embodiments, the methods comprise: a) contacting a sample with a polynucleotide that corresponds to a differentially expressed gene described herein under conditions that allow hybridization; and b) detecting hybridization, if any. Detection of differential hybridization, when compared to a suitable control, is an indication of the presence in the sample of a polynucleotide that is differentially expressed in a colon cancer cell. Appropriate controls include, for example, a sample which is known not to contain a polynucleotide that is differentially expressed in a colon cancer cell, and use of a labeled polynucleotide of the same "sense" as the polynucleotide that is differentially expressed in a colon cancer cell. Conditions that allow hybridization are known in the art, and have been described in more detail above.
- [0099] Detection can also be accomplished by any known method, including, but not limited to, *in situ* hybridization, PCR (polymerase chain reaction), RT-PCR (reverse transcription-PCR), and "Northern" or RNA blotting, or combinations of such techniques, using a suitably labeled polynucleotide. A variety of labels and labeling methods for polynucleotides are known in the art and can be used in the assay methods of the invention. Specific hybridization can be determined by comparison to appropriate controls.

[00100] Polynucleotide generally comprising at least 12 contiguous nt of a polynucleotide provided herein, as shown in the Sequence Listing or of the sequences of the genes corresponding to the polynucleotides of the Sequence Listing, are used for a variety of purposes, such as probes for detection of and/or measurement of, transcription levels of a polynucleotide that is differentially expressed in a colon cancer cell. Additional disclosure about preferred regions of the disclosed polynucleotide sequences is found in the Examples. A probe that hybridizes specifically to a polynucleotide disclosed herein should provide a detection signal at least 2-, 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences. It should be noted that “probe” as used in this context of detection of nucleic acid is meant to refer to a polynucleotide sequence used to detect a differentially expressed gene product in a test sample. As will be readily appreciated by the ordinarily skilled artisan, the probe can be detectably labeled and contacted with, for example, an array comprising immobilized polynucleotides obtained from a test sample (*e.g.*, mRNA). Alternatively, the probe can be immobilized on an array and the test sample detectably labeled. These and other variations of the methods of the invention are well within the skill in the art and are within the scope of the invention.

[00101] Nucleotide probes are used to detect expression of a gene corresponding to the provided polynucleotide. In Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization can be quantitated to determine relative amounts of expression, for example under a particular condition. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used *in vivo* for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels can be used such as chromophores, fluorophores, and enzymes. Other examples of nucleotide hybridization assays are described in WO92/02526 and USPN 5,124,246.

[00102] PCR is another means for detecting small amounts of target nucleic acids (see, *e.g.*, Mullis *et al.*, *Meth. Enzymol.* (1987) 155:335; USPN 4,683,195; and USPN

4,683,202). Two primer polynucleotides nucleotides that hybridize with the target nucleic acids are used to prime the reaction. The primers can be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides, they need not hybridize to them or the complements. After amplification of the target with a thermostable polymerase, the amplified target nucleic acids can be detected by methods known in the art, e.g., Southern blot. mRNA or cDNA can also be detected by traditional blotting techniques (e.g., Southern blot, Northern blot, etc.) described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989) (e.g., without PCR amplification). In general, mRNA or cDNA generated from mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis, and transferred to a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe, washed to remove any unhybridized probe, and duplexes containing the labeled probe are detected.

[00103] Methods using PCR amplification can be performed on the DNA from a single cell, although it is convenient to use at least about 10^5 cells. The use of the polymerase chain reaction is described in Saiki et al. (1985) *Science* 239:487, and a review of current techniques may be found in Sambrook, *et al.* Molecular Cloning: A Laboratory Manual, CSH Press 1989, pp.14.2-14.33. A detectable label may be included in the amplification reaction. Suitable detectable labels include fluorochromes, (e.g. fluorescein isothiocyanate (FITC), rhodamine, Texas Red, phycoerythrin, allophycocyanin, 6-carboxyfluorescein (6-FAM), 2',7'-dimethoxy-4',5'-dichloro-6-carboxyfluorescein, 6-carboxy-X-rhodamine (ROX), 6-carboxy-2',4',7',4,7-hexachlorofluorescein (HEX), 5-carboxyfluorescein (5-FAM) or N,N,N',N'-tetramethyl-6-carboxyrhodamine (TAMRA)), radioactive labels, (e.g. ^{32}P , ^{35}S , ^3H , *etc.*), and the like. The label may be a two stage system, where the polynucleotides is conjugated to biotin, haptens, *etc.* having a high affinity binding partner, e.g. avidin, specific antibodies, *etc.*, where the binding partner is conjugated to a detectable label. The label may be conjugated to one or both of the primers. Alternatively, the pool of nucleotides used in the amplification is labeled, so as to

incorporate the label into the amplification product.

Arrays

- [00104] Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotides or polypeptides in a sample. This technology can be used as a tool to test for differential expression.
- [00105] A variety of methods of producing arrays, as well as variations of these methods, are known in the art and contemplated for use in the invention. For example, arrays can be created by spotting polynucleotide probes onto a substrate (*e.g.*, glass, nitrocellulose, *etc.*) in a two-dimensional matrix or array having bound probes. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions.
- [00106] Samples of polynucleotides can be detectably labeled (*e.g.*, using radioactive or fluorescent labels) and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the unbound portion of the sample is washed away. Alternatively, the polynucleotides of the test sample can be immobilized on the array, and the probes detectably labeled. Techniques for constructing arrays and methods of using these arrays are described in, for example, Schena *et al.* (1996) *Proc Natl Acad Sci U S A.* 93(20):10614-9; Schena *et al.* (1995) *Science* 270(5235):467-70; Shalon *et al.* (1996) *Genome Res.* 6(7):639-45, USPN 5,807,522, EP 799 897; WO 97/29212; WO 97/27317; EP 785 280; WO 97/02357; USPN 5,593,839; USPN 5,578,832; EP 728 520; USPN 5,599,695; EP 721 016; USPN 5,556,752; WO 95/22058; and USPN 5,631,734.
- [00107] Arrays can be used to, for example, examine differential expression of genes and can be used to determine gene function. For example, arrays can be used to detect differential expression of a gene corresponding to a polynucleotide described herein, where expression is compared between a test cell and control cell (*e.g.*, cancer cells and normal cells). For example, high expression of a particular message in a cancer cell, which is not observed in a corresponding normal cell, can indicate a cancer specific gene product. Exemplary uses of arrays are further described in, for example, Pappalarado *et*

al., Sem. Radiation Oncol. (1998) 8:217; and Ramsay, *Nature Biotechnol.* (1998) 16:40. Furthermore, many variations on methods of detection using arrays are well within the skill in the art and within the scope of the present invention. For example, rather than immobilizing the probe to a solid support, the test sample can be immobilized on a solid support which is then contacted with the probe.

DIAGNOSIS, PROGNOSIS, ASSESSMENT OF THERAPY (THERAMETRICS), AND MANAGEMENT OF CANCER

- [00108] The polynucleotides described herein, as well as their gene products and corresponding genes and gene products, are of particular interest as genetic or biochemical markers (e.g., in blood or tissues) that will detect the earliest changes along the carcinogenesis pathway and/or to monitor the efficacy of various therapies and preventive interventions.
- [00109] For example, the level of expression of certain polynucleotides can be indicative of a poorer prognosis, and therefore warrant more aggressive chemo- or radio-therapy for a patient or vice versa. The correlation of novel surrogate tumor specific features with response to treatment and outcome in patients can define prognostic indicators that allow the design of tailored therapy based on the molecular profile of the tumor. These therapies include antibody targeting, antagonists (e.g., small molecules), and gene therapy.
- [00110] Determining expression of certain polynucleotides and comparison of a patient's profile with known expression in normal tissue and variants of the disease allows a determination of the best possible treatment for a patient, both in terms of specificity of treatment and in terms of comfort level of the patient. Surrogate tumor markers, such as polynucleotide expression, can also be used to better classify, and thus diagnose and treat, different forms and disease states of cancer. Two classifications widely used in oncology that can benefit from identification of the expression levels of the genes corresponding to the polynucleotides described herein are staging of the cancerous disorder, and grading the nature of the cancerous tissue.

- [00111] The polynucleotides that correspond to differentially expressed genes, as well as their encoded gene products, can be useful to monitor patients having or susceptible to cancer to detect potentially malignant events at a molecular level before they are detectable at a gross morphological level. In addition, the polynucleotides described herein, as well as the genes corresponding to such polynucleotides, can be useful as therapeutics, *e.g.*, to assess the effectiveness of therapy by using the polynucleotides or their encoded gene products, to assess, for example, tumor burden in the patient before, during, and after therapy.
- [00112] Furthermore, a polynucleotide identified as corresponding to a gene that is differentially expressed in, and thus is important for, one type of cancer can also have implications for development or risk of development of other types of cancer, *e.g.*, where a polynucleotide represents a gene differentially expressed across various cancer types. Thus, for example, expression of a polynucleotide corresponding to a gene that has clinical implications for metastatic colon cancer can also have clinical implications for breast cancer, prostate cancer, or ovarian cancer.
- [00113] Staging. Staging is a process used by physicians to describe how advanced the cancerous state is in a patient. Staging assists the physician in determining a prognosis, planning treatment and evaluating the results of such treatment. Staging systems vary with the types of cancer, but generally involve the following “TNM” system: the type of tumor, indicated by T; whether the cancer has metastasized to nearby lymph nodes, indicated by N; and whether the cancer has metastasized to more distant parts of the body, indicated by M. Generally, if a cancer is only detectable in the area of the primary lesion without having spread to any lymph nodes it is called Stage I. If it has spread only to the closest lymph nodes, it is called Stage II. In Stage II, the cancer has generally spread to the lymph nodes in near proximity to the site of the primary lesion. Cancers that have spread to a distant part of the body, such as the liver, bone, brain or other site, are Stage IV, the most advanced stage.
- [00114] The polynucleotides and corresponding genes and gene products described herein can facilitate fine-tuning of the staging process by identifying markers for the

aggressiveness of a cancer, *e.g.* the metastatic potential, as well as the presence in different areas of the body. Thus, a Stage II cancer with a polynucleotide signifying a high metastatic potential cancer can be used to change a borderline Stage II tumor to a Stage III tumor, justifying more aggressive therapy. Conversely, the presence of a polynucleotide signifying a lower metastatic potential allows more conservative staging of a tumor.

[00115] Grading of cancers. Grade is a term used to describe how closely a tumor resembles normal tissue of its same type. The microscopic appearance of a tumor is used to identify tumor grade based on parameters such as cell morphology, cellular organization, and other markers of differentiation. As a general rule, the grade of a tumor corresponds to its rate of growth or aggressiveness, with undifferentiated or high-grade tumors generally being more aggressive than well-differentiated or low-grade tumors. The following guidelines are generally used for grading tumors: 1) GX Grade cannot be assessed; 2) G1 Well differentiated; G2 Moderately well differentiated; 3) G3 Poorly differentiated; 4) G4 Undifferentiated.

[00116] The polynucleotides of the Sequence Listing, and their corresponding genes and gene products, can be especially valuable in determining the grade of the tumor, as they not only can aid in determining the differentiation status of the cells of a tumor, they can also identify factors other than differentiation that are valuable in determining the aggressiveness of a tumor, such as metastatic potential.

[00117] Assessment of proliferation of cells in tumor. The differential expression level of the polynucleotides described herein can facilitate assessment of the rate of proliferation of tumor cells, and thus provide an indicator of the aggressiveness of the rate of tumor growth. For example, assessment of the relative expression levels of genes involved in cell cycle (*e.g.*, TTK) can provide an indication of cellular proliferation, and thus serve as a marker of proliferation.

[00118] Detection of colon cancer. The polynucleotides corresponding to genes that exhibit the appropriate expression pattern can be used to detect colon cancer in a subject. Colorectal cancer is one of the most common neoplasms in humans and perhaps the most

frequent form of hereditary neoplasia. Prevention and early detection are key factors in controlling and curing colorectal cancer. Colorectal cancer begins as polyps, which are small, benign growths of cells that form on the inner lining of the colon. Over a period of several years, some of these polyps accumulate additional mutations and become cancerous. Multiple familial colorectal cancer disorders have been identified, which are summarized as follows: 1) Familial adenomatous polyposis (FAP); 2) Gardner's syndrome; 3) Hereditary nonpolyposis colon cancer (HNPCC); and 4) Familial colorectal cancer in Ashkenazi Jews.

[00119] The expression of appropriate polynucleotides can be used in the diagnosis, prognosis and management of colorectal cancer. Detection of colon cancer can be determined using expression levels of any of these sequences alone or in combination with the levels of expression. Determination of the aggressive nature and/or the metastatic potential of a colon cancer can be determined by comparing levels of one or more gene products of the genes corresponding to the polynucleotides described herein, and comparing total levels of another sequence known to vary in cancerous tissue, *e.g.*, expression of p53, DCC, ras, FAP (see, *e.g.*, Fearon ER, *et al.*, *Cell* (1990) 61(5):759; Hamilton SR *et al.*, *Cancer* (1993) 72:957; Bodmer W, *et al.*, *Nat Genet.* (1994) 4(3):217; Fearon ER, *Ann N Y Acad Sci.* (1995) 768:101).

[00120] For example, development of colon cancer can be detected by examining the level of expression of a gene corresponding to a polynucleotides described herein to the levels of expression of oncogenes (*e.g.* ras) or tumor suppressor genes (*e.g.* FAP or p53). Thus expression of specific marker polynucleotides can be used to discriminate between normal and cancerous colon tissue, to discriminate between colon cancers with different cells of origin, to discriminate between colon cancers with different potential metastatic rates, etc. For a review of markers of cancer, see, *e.g.*, Hanahan et al. (2000) *Cell* 100:57-70.

Tumor classification and patient stratification

[00121] The invention further provides for methods of classifying tumors, and thus grouping or "stratifying" patients, according to the expression profile of selected differentially expressed genes in a tumor. Differentially expressed genes can be analyzed

for correlation with other differentially expressed genes in a single tumor type or across tumor types. Genes that demonstrate consistent correlation in expression profile in a given cancer cell type (*e.g.*, in a colon cancer cell or type of colon cancer) can be grouped together, *e.g.*, when one gene is overexpressed in a tumor, a second gene is also usually overexpressed. Tumors can then be classified according to the expression profile of one or more genes selected from one or more groups.

[00122] The tumor of each patient in a pool of potential patients can be classified as described above. Patients having similarly classified tumors can then be selected for participation in an investigative or clinical trial of a cancer therapeutic where a homogeneous population is desired. The tumor classification of a patient can also be used in assessing the efficacy of a cancer therapeutic in a heterogeneous patient population. In addition, therapy for a patient having a tumor of a given expression profile can then be selected accordingly.

Treatment of colon cancer

[00123] The invention further provides methods for reducing growth of colon cancer cells. In general, the methods comprise contacting a colon cancer cell with a substance that modulates (1) expression of a polynucleotide corresponding to a gene that is differentially expressed in colon cancer; or (2) a level of and/or an activity of a colon cancer-associated polypeptide. In general, the methods provide for decreasing the expression of a gene that is differentially expressed in a colon cancer cell or decreasing the level of and/or decreasing an activity of a colon cancer-associated polypeptide.

[00124] “Reducing growth of colon cancer cells” includes, but is not limited to, reducing proliferation of colon cancer cells, and reducing the incidence of a non-cancerous colon cell becoming a cancerous colon cell. Whether a reduction in colon cancer cell growth has been achieved can be readily determined using any known assay, including, but not limited to, [³H]-thymidine incorporation; counting cell number over a period of time; detecting and/or measuring a marker associated with colon cancer (*e.g.*, CEA, CA19-9, and LASA).

[00125] The present invention provides methods for treating colon cancer, generally

comprising administering to an individual in need thereof a substance that reduces colon cancer cell growth, in an amount sufficient to reduce colon cancer cell growth and treat the colon cancer. Whether a substance, or a specific amount of the substance, is effective in treating colon cancer can be assessed using any of a variety of known diagnostic assays for colon cancer, including, but not limited to, sigmoidoscopy, proctoscopy, rectal examination, colonoscopy with biopsy, contrast radiographic studies, CAT scans, angiography, and detection of a tumor marker associated with colon cancer in the blood of the individual. The substance can be administered systemically or locally. Thus, in some embodiments, the substance is administered locally, and colon cancer growth is decreased at the site of administration. Local administration may be useful in treating, e.g., a solid tumor.

[00126] A substance that reduces colon cancer cell growth can be targeted to a colon cancer cell. Thus, in some embodiments, the invention provides a method of delivering a drug to a colon cancer cell, comprising administering a drug-antibody complex to a subject, wherein the antibody is specific for a colon cancer-associated polypeptide, and the drug is one that reduces colon cancer cell growth, a variety of which are known in the art. Targeting can be accomplished by coupling (e.g., linking, directly or via a linker molecule, either covalently or non-covalently, so as to form a drug-antibody complex) a drug to an antibody specific for a colon cancer-associated polypeptide. Methods of coupling a drug to an antibody are well known in the art and need not be elaborated upon herein.

[00127] In another embodiment, differentially expressed gene products (*e.g.*, polypeptides or polynucleotides encoding such polypeptides) may be effectively used in treatment through vaccination. The growth of cancer cells is naturally limited in part due to immune surveillance. Stimulation of the immune system using a particular tumor-specific antigen enhances the effect towards the tumor expressing the antigen. An active vaccine comprising a polypeptide encoded by the cDNA of this invention would be appropriately administered to subjects having overabundance of the corresponding RNA, or those predisposed for developing cancer cells with overabundance of the same RNA.

Polypeptide antigens are typically combined with an adjuvant as part of a vaccine composition. The vaccine is preferably administered first as a priming dose, and then again as a boosting dose, usually at least four weeks later. Further boosting doses may be given to enhance the effect. The dose and its timing are usually determined by the person responsible for the treatment.

[00128] The invention also encompasses the selection of a therapeutic regimen based upon the expression profile of differentially expressed genes in the patient's tumor. For example, a tumor can be analyzed for its expression profile of the genes corresponding to SEQ ID NOS:1-1303 as described herein, *e.g.*, the tumor is analyzed to determine which genes are expressed at elevated levels or at decreased levels relative to normal cells of the same tissue type. The expression patterns of the tumor are then compared to the expression patterns of tumors that respond to a selected therapy. Where the expression profiles of the test tumor cell and the expression profile of a tumor cell of known drug responsivity at least substantially match (*e.g.*, selected sets of genes at elevated levels in the tumor of known drug responsivity and are also at elevated levels in the test tumor cell), then the drug selected for therapy is the drug to which tumors with that expression pattern respond.

IDENTIFICATION OF THERAPEUTIC TARGETS AND ANTI-CANCER THERAPEUTIC AGENTS

[00129] The present invention also encompasses methods for identification of agents having the ability to modulate activity of a differentially expressed gene product, as well as methods for identifying a differentially expressed gene product as a therapeutic target for treatment of cancer, especially colon cancer.

Candidate agents

[00130] Identification of compounds that modulate activity of a differentially expressed gene product can be accomplished using any of a variety of drug screening techniques. Such agents are candidates for development of cancer therapies. Of particular interest are screening assays for agents that have tolerable toxicity for normal, non-cancerous human cells. The screening assays of the invention are generally based upon the ability of the

agent to modulate an activity of a differentially expressed gene product and/or to inhibit or suppress phenomenon associated with cancer (*e.g.*, cell proliferation, colony formation, cell cycle arrest, metastasis, and the like).

[00131] The term "agent" as used herein describes any molecule, *e.g.* protein or pharmaceutical, with the capability of modulating a biological activity of a gene product of a differentially expressed gene. Generally a plurality of assay mixtures are run in parallel with different agent concentrations to obtain a differential response to the various concentrations. Typically, one of these concentrations serves as a negative control, *i.e.* at zero concentration or below the level of detection.

[00132] Candidate agents encompass numerous chemical classes, though typically they are organic molecules, preferably small organic compounds having a molecular weight of more than 50 and less than about 2,500 daltons. Candidate agents comprise functional groups necessary for structural interaction with proteins, particularly hydrogen bonding, and typically include at least an amine, carbonyl, hydroxyl or carboxyl group, preferably at least two of the functional chemical groups. The candidate agents often comprise cyclical carbon or heterocyclic structures and/or aromatic or polyaromatic structures substituted with one or more of the above functional groups. Candidate agents are also found among biomolecules including, but not limited to: peptides, saccharides, fatty acids, steroids, purines, pyrimidines, derivatives, structural analogs or combinations thereof.

[00133] Candidate agents are obtained from a wide variety of sources including libraries of synthetic or natural compounds. For example, numerous means are available for random and directed synthesis of a wide variety of organic compounds and biomolecules, including expression of randomized oligonucleotides and oligopeptides. Alternatively, libraries of natural compounds in the form of bacterial, fungal, plant and animal extracts (including extracts from human tissue to identify endogenous factors affecting differentially expressed gene products) are available or readily produced. Additionally, natural or synthetically produced libraries and compounds are readily modified through conventional chemical, physical and biochemical means, and may be used to produce

combinatorial libraries. Known pharmacological agents may be subjected to directed or random chemical modifications, such as acylation, alkylation, esterification, amidification, *etc.* to produce structural analogs.

- [00134] Exemplary candidate agents of particular interest include, but are not limited to, antisense polynucleotides, and antibodies, soluble receptors, and the like. Antibodies and soluble receptors are of particular interest as candidate agents where the target differentially expressed gene product is secreted or accessible at the cell-surface (*e.g.*, receptors and other molecule stably-associated with the outer cell membrane).

Screening of candidate agents

- [00135] Screening assays can be based upon any of a variety of techniques readily available and known to one of ordinary skill in the art. In general, the screening assays involve contacting a cancerous cell (preferably a cancerous colon cell) with a candidate agent, and assessing the effect upon biological activity of a differentially expressed gene product. The effect upon a biological activity can be detected by, for example, detection of expression of a gene product of a differentially expressed gene (*e.g.*, a decrease in mRNA or polypeptide levels, would in turn cause a decrease in biological activity of the gene product). Alternatively or in addition, the effect of the candidate agent can be assessed by examining the effect of the candidate agent in a functional assay. For example, where the differentially expressed gene product is an enzyme, then the effect upon biological activity can be assessed by detecting a level of enzymatic activity associated with the differentially expressed gene product. The functional assay will be selected according to the differentially expressed gene product. In general, where the differentially expressed gene is increased in expression in a cancerous cell, agents of interest are those that decrease activity of the differentially expressed gene product.

- [00136] Assays described *infra* can be readily adapted in the screening assay embodiments of the invention. Exemplary assays useful in screening candidate agents include, but are not limited to, hybridization-based assays (*e.g.*, use of nucleic acid probes or primers to assess expression levels), antibody-based assays (*e.g.*, to assess levels of polypeptide gene products), binding assays (*e.g.*, to detect interaction of a candidate agent with a

differentially expressed polypeptide, which assays may be competitive assays where a natural or synthetic ligand for the polypeptide is available), and the like. Additional exemplary assays include, but are not necessarily limited to, cell proliferation assays, antisense knockout assays, assays to detect inhibition of cell cycle, assays of induction of cell death/apoptosis, and the like. Generally such assays are conducted *in vitro*, but many assays can be adapted for *in vivo* analyses, *e.g.*, in an animal model of the cancer.

Identification of therapeutic targets

[00137] In another embodiment, the invention contemplates identification of differentially expressed genes and gene products as therapeutic targets. In some respects, this is the converse of the assays described above for identification of agents having activity in modulating (*e.g.*, decreasing or increasing) activity of a differentially expressed gene product.

[00138] In this embodiment, therapeutic targets are identified by examining the effect(s) of an agent that can be demonstrated or has been demonstrated to modulate a cancerous phenotype (*e.g.*, inhibit or suppress or prevent development of a cancerous phenotype). Such agents are generally referred to herein as an "anti-cancer agent", which agents encompass chemotherapeutic agents. For example, the agent can be an antisense oligonucleotide that is specific for a selected gene transcript. For example, the antisense oligonucleotide may have a sequence corresponding to a sequence of a differentially expressed gene described herein, *e.g.*, a sequence of one of SEQ ID NOS:1-1303.

[00139] Assays for identification of therapeutic targets can be conducted in a variety of ways using methods that are well known to one of ordinary skill in the art. For example, a test cancerous cell that expresses or overexpresses a differentially expressed gene is contacted with an anti-cancer agent, the effect upon a cancerous phenotype and a biological activity of the candidate gene product assessed. The biological activity of the candidate gene product can be assayed by examining, for example, modulation of expression of a gene encoding the candidate gene product (*e.g.*, as detected by, for example, an increase or decrease in transcript levels or polypeptide levels), or modulation of an enzymatic or other activity of the gene product. The cancerous phenotype can be,

for example, cellular proliferation, loss of contact inhibition of growth (*e.g.*, colony formation), tumor growth (*in vitro* or *in vivo*), and the like. Alternatively or in addition, the effect of modulation of a biological activity of the candidate target gene upon cell death/apoptosis or cell cycle regulation can be assessed.

[00140] Inhibition or suppression of a cancerous phenotype, or an increase in cell/death apoptosis as a result of modulation of biological activity of a candidate gene product indicates that the candidate gene product is a suitable target for cancer therapy. Assays described *infra* can be readily adapted in for assays for identification of therapeutic targets. Generally such assays are conducted *in vitro*, but many assays can be adapted for *in vivo* analyses, *e.g.*, in an appropriate, art-accepted animal model of the cancer.

USE OF POLYPEPTIDES TO SCREEN FOR PEPTIDE ANALOGS AND ANTAGONISTS

[00141] Polypeptides encoded by differentially expressed genes identified herein can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides. Peptide libraries can be synthesized according to methods known in the art (*see, e.g.*, USPN 5,010,175 and WO 91/17823).

[00142] Agonists or antagonists of the polypeptides if the invention can be screened using any available method known in the art, such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide can require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide can be added in concentrations on the order of the native concentration.

[00143] Such screening and experimentation can lead to identification of a polypeptide binding partner, such as a receptor, encoded by a gene or a cDNA corresponding to a polynucleotide described herein, and at least one peptide agonist or antagonist of the

binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells that possess the receptor as a result of genetic engineering. Further, if the receptor shares biologically important characteristics with a known receptor, information about agonist/antagonist binding can facilitate development of improved agonists/antagonists of the known receptor.

VACCINES AND USES

[00144] The differentially expressed nucleic acids and polypeptides produced by the nucleic acids of the invention can also be used to modulate primary immune response to prevent or treat cancer. Every immune response is a complex and intricately regulated sequence of events involving several cell types. It is triggered when an antigen enters the body and encounters a specialized class of cells called antigen-presenting cells (APCs). These APCs capture a minute amount of the antigen and display it in a form that can be recognized by antigen-specific helper T lymphocytes. The helper (Th) cells become activated and, in turn, promote the activation of other classes of lymphocytes, such as B cells or cytotoxic T cells. The activated lymphocytes then proliferate and carry out their specific effector functions, which in many cases successfully activate or eliminate the antigen. Thus, activating the immune response to a particular antigen associated with a cancer cell can protect the patient from developing cancer or result in lymphocytes eliminating cancer cells expressing the antigen.

[00145] Gene products, including polypeptides, mRNA (particularly mRNAs having distinct secondary and/or tertiary structures), cDNA, or complete gene, can be prepared and used in vaccines for the treatment or prevention of hyperproliferative disorders and cancers. The nucleic acids and polypeptides can be utilized to enhance the immune response, prevent tumor progression, prevent hyperproliferative cell growth, and the like. Methods for selecting nucleic acids and polypeptides that are capable of enhancing the immune response are known in the art. Preferably, the gene products for use in a vaccine are gene products which are present on the surface of a cell and are recognizable by

lymphocytes and antibodies.

[00146] The gene products may be formulated with pharmaceutically acceptable carriers into pharmaceutical compositions by methods known in the art. The composition is useful as a vaccine to prevent or treat cancer. The composition may further comprise at least one co-immunostimulatory molecule, including but not limited to one or more major histocompatibility complex (MHC) molecules, such as a class I or class II molecule, preferably a class I molecule. The composition may further comprise other stimulator molecules including B7.1, B7.2, ICAM-1, ICAM-2, LFA-1, LFA-3, CD72 and the like, immunostimulatory polynucleotides (which comprise an 5'-CG-3' wherein the cytosine is unmethylated), and cytokines which include but are not limited to IL-1 through IL-15, TNF- α , IFN- γ , RANTES, G-CSF, M-CSF, IFN- α , CTAP III, ENA-78, GRO, I-309, PF-4, IP-10, LD-78, MGSA, MIP-1 α , MIP-1 β , or combination thereof, and the like for immunopotential. In one embodiment, the immunopotential of particular interest are those which facilitate a Th1 immune response.

[00147] The gene products may also be prepared with a carrier that will protect the gene products against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, polylactic acid, and the like. Methods for preparation of such formulations are known in the art.

[00148] In the methods of preventing or treating cancer, the gene products may be administered via one of several routes including but not limited to transdermal, transmucosal, intravenous, intramuscular, subcutaneous, intradermal, intraperitoneal, intrathecal, intrapleural, intrauterine, rectal, vaginal, topical, intratumor, and the like. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, administration bile salts and fusidic acid derivatives. In addition, detergents may be used to facilitate permeation. Transmucosal administration may be by nasal sprays or suppositories. For oral administration, the gene products are

formulated into conventional oral administration form such as capsules, tablets and toxics.

[00149] The gene product is administered to a patient in an amount effective to prevent or treat cancer. In general, it is desirable to provide the patient with a dosage of gene product of at least about 1 pg per Kg body weight, preferably at least about 1 ng per Kg body weight, more preferably at least about 1 μ g or greater per Kg body weight of the recipient. A range of from about 1 ng per Kg body weight to about 100 mg per Kg body weight is preferred although a lower or higher dose may be administered. The dose is effective to prime, stimulate and/or cause the clonal expansion of antigen-specific T lymphocytes, preferably cytotoxic T lymphocytes, which in turn are capable of preventing or treating cancer in the recipient. The dose is administered at least once and may be provided as a bolus or a continuous administration. Multiple administrations of the dose over a period of several weeks to months may be preferable. Subsequent doses may be administered as indicated.

[00150] In another method of treatment, autologous cytotoxic lymphocytes or tumor infiltrating lymphocytes may be obtained from a patient with cancer. The lymphocytes are grown in culture, and antigen-specific lymphocytes are expanded by culturing in the presence of the specific gene products alone or in combination with at least one co-immunostimulatory molecule with cytokines. The antigen-specific lymphocytes are then infused back into the patient in an amount effective to reduce or eliminate the tumors in the patient. Cancer vaccines and their uses are further described in USPN 5,961,978; USPN 5,993,829; USPN 6,132,980; and WO 00/38706.

PHARMACEUTICAL COMPOSITIONS AND USES

[00151] Pharmaceutical compositions can comprise polypeptides, receptors that specifically bind a polypeptide produced by a differentially expressed gene (*e.g.*, antibodies, or polynucleotides (including antisense nucleotides and ribozymes) of the claimed invention in a therapeutically effective amount. The compositions can be used to treat primary tumors as well as metastases of primary tumors. In addition, the

pharmaceutical compositions can be used in conjunction with conventional methods of cancer treatment, *e.g.*, to sensitize tumors to radiation or conventional chemotherapy.

[00152] Where the pharmaceutical composition comprises a receptor (such as an antibody) that specifically binds to a gene product encoded by a differentially expressed gene, the receptor can be coupled to a drug for delivery to a treatment site or coupled to a detectable label to facilitate imaging of a site comprising colon cancer cells. Methods for coupling antibodies to drugs and detectable labels are well known in the art, as are methods for imaging using detectable labels.

[00153] The term “therapeutically effective amount” as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature.

[00154] The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation is determined by routine experimentation and is within the judgment of the clinician. For purposes of the present invention, an effective dose will generally be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the DNA constructs in the individual to which it is administered.

[00155] A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term “pharmaceutically acceptable carrier” refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which can be administered without undue toxicity. Suitable carriers can be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and

inactive virus particles. Such carriers are well known to those of ordinary skill in the art. Pharmaceutically acceptable carriers in therapeutic compositions can include liquids such as water, saline, glycerol and ethanol. Auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, can also be present in such vehicles.

[00156] Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection can also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier. Pharmaceutically acceptable salts can also be present in the pharmaceutical composition, e.g., mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington: The Science and Practice of Pharmacy* (1995) Alfonso Gennaro, Lippincott, Williams, & Wilkins.

DELIVERY METHODS

[00157] Once formulated, the compositions contemplated by the invention can be (1) administered directly to the subject (e.g., as polynucleotide, polypeptides, small molecule agonists or antagonists, and the like); or (2) delivered ex vivo, to cells derived from the subject (e.g., as in *ex vivo* gene therapy). Direct delivery of the compositions will generally be accomplished by parenteral injection, e.g., subcutaneously, intraperitoneally, intravenously or intramuscularly, intratumoral or to the interstitial space of a tissue. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment can be a single dose schedule or a multiple dose schedule.

[00158] Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem

cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells. Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

[00159] Once differential expression of a gene corresponding to a polynucleotide described herein has been found to correlate with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder can be amenable to treatment by administration of a therapeutic agent based on the provided polynucleotide, corresponding polypeptide or other corresponding molecule (e.g., antisense, ribozyme, etc.). In other embodiments, the disorder can be amenable to treatment by administration of a small molecule drug that, for example, serves as an inhibitor (antagonist) of the function of the encoded gene product of a gene having increased expression in cancerous cells relative to normal cells or as an agonist for gene products that are decreased in expression in cancerous cells (e.g., to promote the activity of gene products that act as tumor suppressors).

[00160] The dose and the means of administration of the inventive pharmaceutical compositions are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. For example, administration of polynucleotide therapeutic composition agents includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. In general, the therapeutic polynucleotide composition contains an expression construct comprising a promoter operably linked to a polynucleotide of at least 12, 22, 25, 30, or 35 contiguous nt of the polynucleotide disclosed herein. Various methods can be used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively,

arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

[00161] Targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues can also be used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends Biotechnol.* (1993) 11:202; Chiou *et al.*, *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A. Wolff, ed.) (1994); Wu *et al.*, *J. Biol. Chem.* (1988) 263:621; Wu *et al.*, *J. Biol. Chem.* (1994) 269:542; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655; Wu *et al.*, *J. Biol. Chem.* (1991) 266:338. Therapeutic compositions containing a polynucleotide are administered in a range of about 100 ng to about 200 mg of DNA for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 μ g to about 2 mg, about 5 μ g to about 500 μ g, and about 20 μ g to about 100 μ g of DNA can also be used during a gene therapy protocol. Factors such as method of action (e.g., for enhancing or inhibiting levels of the encoded gene product) and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides.

[00162] Where greater expression is desired over a larger area of tissue, larger amounts of antisense subgenomic polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. For polynucleotide related genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in USPN 5,654,173.

[00163] The therapeutic polynucleotides and polypeptides of the present invention can be delivered using gene delivery vehicles. The gene delivery vehicle can be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51; Kimura, *Human Gene Therapy* (1994) 5:845; Connelly, *Human Gene Therapy* (1995) 1:185; and Kaplitt, *Nature Genetics* (1994) 6:148). Expression of such coding sequences can be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

[00164] Viral-based vectors for delivery of a desired polynucleotide and expression in a desired cell are well known in the art. Exemplary viral-based vehicles include, but are not limited to, recombinant retroviruses (see, e.g., WO 90/07936; WO 94/03622; WO 93/25698; WO 93/25234; USPN 5, 219,740; WO 93/11230; WO 93/10218; USPN 4,777,127; GB Patent No. 2,200,651; EP 0 345 242; and WO 91/02805), alphavirus-based vectors (e.g., Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532), and adeno-associated virus (AAV) vectors (see, e.g., WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655). Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147 can also be employed.

[00165] Non-viral delivery vehicles and methods can also be employed, including, but not limited to, polycationic condensed DNA linked or unlinked to killed adenovirus alone (see, e.g., Curiel, *Hum. Gene Ther.* (1992) 3:147); ligand-linked DNA (see, e.g., Wu, *J. Biol. Chem.* (1989) 264:16985); eukaryotic cell delivery vehicles cells (see, e.g., USPN 5,814,482; WO 95/07994; WO 96/17072; WO 95/30763; and WO 97/42338) and nucleic charge neutralization or fusion with cell membranes. Naked DNA can also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and USPN 5,580,859. Liposomes that can act as gene delivery vehicles are described in USPN 5,422,120; WO 95/13796; WO 94/23697; WO 91/14445; and EP 0524968. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411, and in Woffendin,

Proc. Natl. Acad. Sci. (1994) 91:1581.

[00166] Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581. Moreover, the coding sequence and the product of expression of such can be delivered through deposition of photopolymerized hydrogel materials or use of ionizing radiation (see, e.g., USPN 5,206,152 and WO 92/11033). Other conventional methods for gene delivery that can be used for delivery of the coding sequence include, for example, use of hand-held gene transfer particle gun (see, e.g., USPN 5,149,655); use of ionizing radiation for activating transferred gene (see, e.g., USPN 5,206,152 and WO 92/11033).

EXAMPLES

[00167] The following examples are put forth so as to provide those of ordinary skill in the art with a complete disclosure and description of how to make and use the present invention, and are not intended to limit the scope of what the inventors regard as their invention nor are they intended to represent that the experiments below are all or the only experiments performed. Efforts have been made to ensure accuracy with respect to numbers used (e.g. amounts, temperature, etc.) but some experimental errors and deviations should be accounted for. Unless indicated otherwise, parts are parts by weight, molecular weight is weight average molecular weight, temperature is in degrees Centigrade, and pressure is at or near atmospheric.

EXAMPLE 1: SOURCE OF BIOLOGICAL MATERIALS

[00168] The biological materials used in the experiments that led to the present invention are described below.

Source of patient tissue samples

[00169] Normal and cancerous tissues were collected from patients using laser capture microdissection (LCM) techniques, which techniques are well known in the art (see, e.g., Ohyama *et al.* (2000) *Biotechniques* 29:530-6; Curran *et al.* (2000) *Mol. Pathol.* 53:64-8;

Suarez-Quian *et al.* (1999) *Biotechniques* 26:328-35; Simone *et al.* (1998) *Trends Genet* 14:272-6; Conia *et al.* (1997) *J. Clin. Lab. Anal.* 11:28-38; Emmert-Buck *et al.* (1996) *Science* 274:998-1001). Table 1 (inserted prior to claims) provides information about each patient from which colon tissue samples were isolated, including: the Patient ID ("PT ID") and Path ReportID ("Path ID"), which are numbers assigned to the patient and the pathology reports for identification purposes; the group ("Grp") to which the patients have been assigned; the anatomical location of the tumor ("Anatom Loc"); the primary tumor size ("Size"); the primary tumor grade ("Grade"); the identification of the histopathological grade ("Histo Grade"); a description of local sites to which the tumor had invaded ("Local Invasion"); the presence of lymph node metastases ("Lymph Met"); the incidence of lymph node metastases (provided as a number of lymph nodes positive for metastasis over the number of lymph nodes examined) ("Lymph Met Incid"); the regional lymphnode grade ("Reg Lymph Grade"); the identification or detection of metastases to sites distant to the tumor and their location ("Dist Met & Loc"); the grade of distant metastasis ("Dist Met Grade"); and general comments about the patient or the tumor ("Comments"). Histopathology of all primary tumors indicated the tumor was adenocarcinoma except for Patient ID Nos. 130 (for which no information was provided), 392 (in which greater than 50% of the cells were mucinous carcinoma), and 784 (adenosquamous carcinoma). Extranodal extensions were described in three patients, Patient ID Nos. 784, 789, and 791. Lymphovascular invasion was described in Patient ID Nos. 128, 228, 278, 517, 534, 784, 786, 789, 791, 890, and 892. Crohn's-like infiltrates were described in seven patients, Patient ID Nos. 52, 264, 268, 392, 393, 784, and 791.

Source of polynucleotides on arrays

[00170] Polynucleotides for use on the arrays were obtained from both publicly available sources and from cDNA libraries generated from selected cell lines and patient tissues. Table 2 (inserted prior to claims) provides information about the polynucleotides on the arrays including: (1) the "SEQ ID NO" assigned to each sequence for use in the present specification; (2) the spot identification number ("Spot ID"), an internal reference that serves as a unique identifier for the spot on the array; (3) the "Clone ID" assigned to the

clone from which the sequence was isolated; and (4) the “MAClone ID” assigned to the clone from which the sequence was isolated. The sequences corresponding to the SEQ ID NOS are provided in the Sequence Listing.

Characterization of sequences

[00171] The sequences of the isolated polynucleotides were first masked to eliminate low complexity sequences using the RepeatMasker masking program, publicly available through a web site supported by the University of Washington (*See also* Smit, A.F.A. and Green, P., unpublished results). Generally, masking does not influence the final search results, except to eliminate sequences of relatively little interest due to their low complexity, and to eliminate multiple “hits” based on similarity to repetitive regions common to multiple sequences, e.g., Alu repeats. Masking resulted in the elimination of several sequences.

[00172] The remaining sequences of the isolated polynucleotides were used in a homology search of the GenBank database using the TeraBLAST program (TimeLogic, Crystal Bay, Nevada), a DNA and protein sequence homology searching algorithm. TeraBLAST is a version of the publicly available BLAST search algorithm developed by the National Center for Biotechnology, modified to operate at an accelerated speed with increased sensitivity on a specialized computer hardware platform. The program was run with the default parameters recommended by TimeLogic to provide the best sensitivity and speed for searching DNA and protein sequences. Gene assignment for the query sequences was determined based on best hit from the GenBank database; expectancy values are provided with the hit.

Summary of TeraBLAST Search Results

[00173] Table 3 (inserted prior to the claims) provides information about the gene corresponding to each polynucleotide. Table 3 includes: (1) the “SEQ ID NO” of the sequence; (2) the “Clone ID” assigned to the clone from which the sequence was isolated; (3) the “MAClone ID” assigned to the clone from which the sequence was isolated; (4) the percentage of masking of the sequence (“Mask Prcnt”) (5) the GenBank Accession Number of the publicly available sequence corresponding to the polynucleotide

("GBHit"); (6) a description of the GenBank sequence ("GBDescription"); and (7) the score of the similarity of the polynucleotide sequence and the GenBank sequence ("GBScore"). The published information for each GenBank and EST description, as well as the corresponding sequence identified by the provided accession number, are incorporated herein by reference.

EXAMPLE 2: DETECTION OF DIFFERENTIAL EXPRESSION USING ARRAYS

[00174] cDNA probes were prepared from total RNA isolated from the patient cells described above. Since LCM provides for the isolation of specific cell types to provide a substantially homogenous cell sample, this provided for a similarly pure RNA sample.

[00175] Total RNA was first reverse transcribed into cDNA using a primer containing a T7 RNA polymerase promoter, followed by second strand DNA synthesis. cDNA was then transcribed *in vitro* to produce antisense RNA using the T7 promoter-mediated expression (see, e.g., Luo *et al.* (1999) *Nature Med* 5:117-122), and the antisense RNA was then converted into cDNA. The second set of cDNAs were again transcribed *in vitro*, using the T7 promoter, to provide antisense RNA. Optionally, the RNA was again converted into cDNA, allowing for up to a third round of T7-mediated amplification to produce more antisense RNA. Thus the procedure provided for two or three rounds of *in vitro* transcription to produce the final RNA used for fluorescent labeling.

[00176] Fluorescent probes were generated by first adding control RNA to the antisense RNA mix, and producing fluorescently labeled cDNA from the RNA starting material. Fluorescently labeled cDNAs prepared from the tumor RNA sample were compared to fluorescently labeled cDNAs prepared from normal cell RNA sample. For example, the cDNA probes from the normal cells were labeled with Cy3 fluorescent dye (green) and the cDNA probes prepared from the tumor cells were labeled with Cy5 fluorescent dye (red), and vice versa.

[00177] Each array used had an identical spatial layout and control spot set. Each microarray was divided into two areas, each area having an array with, on each half, twelve groupings of 32 x 12 spots, for a total of about 9,216 spots on each array. The two

areas are spotted identically which provide for at least two duplicates of each clone per array.

[00178] Polynucleotides for use on the arrays were obtained from both publicly available sources and from cDNA libraries generated from selected cell lines and patient tissues as described above and in Table 2 (inserted prior to claims). PCR products of from about 0.5kb to 2.0 kb amplified from these sources were spotted onto the array using a Molecular Dynamics Gen III spotter according to the manufacturer's recommendations. The first row of each of the 24 regions on the array had about 32 control spots, including 4 negative control spots and 8 test polynucleotides. The test polynucleotides were spiked into each sample before the labeling reaction with a range of concentrations from 2-600 pg/slide and ratios of 1:1. For each array design, two slides were hybridized with the test samples reverse-labeled in the labeling reaction. This provided for about four duplicate measurements for each clone, two of one color and two of the other, for each sample.

[00179] The differential expression assay was performed by mixing equal amounts of probes from tumor cells and normal cells of the same patient. The arrays were prehybridized by incubation for about 2 hrs at 60°C in 5X SSC/0.2% SDS/1 mM EDTA, and then washed three times in water and twice in isopropanol. Following prehybridization of the array, the probe mixture was then hybridized to the array under conditions of high stringency (overnight at 42°C in 50% formamide, 5X SSC, and 0.2% SDS. After hybridization, the array was washed at 55°C three times as follows: 1) first wash in 1X SSC/0.2% SDS; 2) second wash in 0.1X SSC/0.2% SDS; and 3) third wash in 0.1X SSC.

[00180] The arrays were then scanned for green and red fluorescence using a Molecular Dynamics Generation III dual color laser-scanner/detector. The images were processed using BioDiscovery Autogene software, and the data from each scan set normalized to provide for a ratio of expression relative to normal. Data from the microarray experiments was analyzed according to the algorithms described in U.S. application serial no. 60/252,358, filed November 20, 2000, by E.J. Moler, M.A. Boyle, and F.M. Randazzo, and entitled "Precision and accuracy in cDNA microarray data," which

application is specifically incorporated herein by reference.

[00181] The experiment was repeated, this time labeling the two probes with the opposite color in order to perform the assay in both "color directions." Each experiment was sometimes repeated with two more slides (one in each color direction). The level fluorescence for each sequence on the array expressed as a ratio of the geometric mean of 8 replicate spots/genes from the four arrays or 4 replicate spots/gene from 2 arrays or some other permutation. The data were normalized using the spiked positive controls present in each duplicated area, and the precision of this normalization was included in the final determination of the significance of each differential. The fluorescent intensity of each spot was also compared to the negative controls in each duplicated area to determine which spots have detected significant expression levels in each sample.

[00182] A statistical analysis of the fluorescent intensities was applied to each set of duplicate spots to assess the precision and significance of each differential measurement, resulting in a p-value testing the null hypothesis that there is no differential in the expression level between the tumor and normal samples of each patient. During initial analysis of the microarrays, the hypothesis was accepted if $p > 10^{-3}$, and the differential ratio was set to 1.000 for those spots. All other spots have a significant difference in expression between the tumor and normal sample. If the tumor sample has detectable expression and the normal does not, the ratio is truncated at 1000 since the value for expression in the normal sample would be zero, and the ratio would not be a mathematically useful value (e.g., infinity). If the normal sample has detectable expression and the tumor does not, the ratio is truncated to 0.001, since the value for expression in the tumor sample would be zero and the ratio would not be a mathematically useful value. These latter two situations are referred to herein as "on/off." Database tables were populated using a 95% confidence level ($p > 0.05$).

[00183] Table 4 (inserted prior to the claims) provides the results for gene products that were expressed by at least 2-fold or greater in the colon tumor samples relative to normal tissue samples in at least 20% of the patients tested, or gene products in which expression levels of the gene in colon tumor cells was less than or equal to $\frac{1}{2}$ of the expression level

in normal tissue samples in at least 20% of the patients tested. Table 4 includes: (1) the “SEQ ID NO” of the sequence tested; (2) the spot identification number (“Spot ID”); (3) the “Clone ID” assigned to the clone from which the sequence was isolated; (4) the “MAClone ID” assigned to the clone from which the sequence was isolated; (5) the percentage of patients tested in which expression levels (*e.g.*, as message level) of the gene was at least 2-fold greater in cancerous tissue than in matched normal tissue (“ $\geq 2x$ ”); (6) the percentage of patients tested in which expression levels (*e.g.*, as message level) of the gene was at least 5-fold greater in cancerous tissue than in matched normal tissue (“ $\geq 5x$ ”); (7) the percentage of patients tested in which expression levels (*e.g.*, as message level) of the gene was less than or equal to $\frac{1}{2}$ of the expression level in matched normal cells (“ $\leq \text{halfx}$ ”); and (8) the number of patients analyzed (“Num Ratios”).

[00184] Table 4 also includes the results from each patient, identified by the patient ID number (*e.g.*, 10). This data represents the ratio of differential expression for the samples tested from that particular patient's tissues (*e.g.*, "10" is the ratio from the tissue samples of Patient ID no. 10). The ratios of differential expression are expressed as a normalized hybridization signal associated with the tumor probe divided by the normalized hybridization signal with the normal probe. Thus, a ratio greater than 1 indicates that the gene product is increased in expression in cancerous cells relative to normal cells, while a ratio of less than 1 indicates the opposite.

[00185] These data provide evidence that the genes represented by the polynucleotides having the indicated sequences are differentially expressed in colon cancer as compared to normal non-cancerous colon tissue.

EXAMPLE 3: ANTISENSE REGULATION OF GENE EXPRESSION

[00186] The expression of the differentially expressed genes represented by the polynucleotides in the cancerous cells can be analyzed using antisense knockout technology to confirm the role and function of the gene product in tumorigenesis, *e.g.*, in promoting a metastatic phenotype.

[00187] A number of different oligonucleotides complementary to the mRNA generated by the differentially expressed genes identified herein can be designed as potential antisense oligonucleotides, and tested for their ability to suppress expression of the genes. Sets of antisense oligomers specific to each candidate target are designed using the sequences of the polynucleotides corresponding to a differentially expressed gene and the software program HYBsimulator Version 4 (available for Windows 95/Windows NT or for Power Macintosh, RNature, Inc. 1003 Health Sciences Road, West, Irvine, CA 92612 USA). Factors that are considered when designing antisense oligonucleotides include: 1) the secondary structure of oligonucleotides; 2) the secondary structure of the target gene; 3) the specificity with no or minimum cross-hybridization to other expressed genes; 4) stability; 5) length and 6) terminal GC content. The antisense oligonucleotide is designed so that it will hybridize to its target sequence under conditions of high stringency at physiological temperatures (*e.g.*, an optimal temperature for the cells in culture to provide for hybridization in the cell, *e.g.*, about 37°C), but with minimal formation of homodimers.

[00188] Using the sets of oligomers and the HYBsimulator program, three to ten antisense oligonucleotides and their reverse controls are designed and synthesized for each candidate mRNA transcript, which transcript is obtained from the gene corresponding to the target polynucleotide sequence of interest. Once synthesized and quantitated, the oligomers are screened for efficiency of a transcript knock-out in a panel of cancer cell lines. The efficiency of the knock-out is determined by analyzing mRNA levels using lightcycler quantification. The oligomers that resulted in the highest level of transcript knock-out, wherein the level was at least about 50%, preferably about 80-90%, up to 95% or more up to undetectable message, are selected for use in a cell-based proliferation assay, an anchorage independent growth assay, and an apoptosis assay.

[00189] The ability of each designed antisense oligonucleotide to inhibit gene expression is tested through transfection into SW620 colon carcinoma cells. For each transfection mixture, a carrier molecule (such as a lipid, lipid derivative, lipid-like molecule, cholesterol, cholesterol derivative, or cholesterol-like molecule) is prepared to a working

concentration of 0.5 mM in water, sonicated to yield a uniform solution, and filtered through a 0.45 μ m PVDF membrane. The antisense or control oligonucleotide is then prepared to a working concentration of 100 μ M in sterile Millipore water. The oligonucleotide is further diluted in OptiMEM™ (Gibco/BRL), in a microfuge tube, to 2 μ M, or approximately 20 μ g oligo/ml of OptiMEM™. In a separate microfuge tube, the carrier molecule, typically in the amount of about 1.5-2 nmol carrier/ μ g antisense oligonucleotide, is diluted into the same volume of OptiMEM™ used to dilute the oligonucleotide. The diluted antisense oligonucleotide is immediately added to the diluted carrier and mixed by pipetting up and down. Oligonucleotide is added to the cells to a final concentration of 30 nM.

[00190] The level of target mRNA that corresponds to a target gene of interest in the transfected cells is quantitated in the cancer cell lines using the Roche LightCycler™ real-time PCR machine. Values for the target mRNA are normalized versus an internal control (*e.g.*, beta-actin). For each 20 μ l reaction, extracted RNA (generally 0.2-1 μ g total) is placed into a sterile 0.5 or 1.5 ml microcentrifuge tube, and water is added to a total volume of 12.5 μ l. To each tube is added 7.5 μ l of a buffer/enzyme mixture, prepared by mixing (in the order listed) 2.5 μ l H₂O, 2.0 μ l 10X reaction buffer, 10 μ l oligo dT (20 pmol), 1.0 μ l dNTP mix (10 mM each), 0.5 μ l RNAsin® (20u) (Ambion, Inc., Hialeah, FL), and 0.5 μ l MMLV reverse transcriptase (50u) (Ambion, Inc.). The contents are mixed by pipetting up and down, and the reaction mixture is incubated at 42°C for 1 hour. The contents of each tube are centrifuged prior to amplification.

[00191] An amplification mixture is prepared by mixing in the following order: 1X PCR buffer II, 3 mM MgCl₂, 140 μ M each dNTP, 0.175 pmol each oligo, 1:50,000 dil of SYBR® Green, 0.25 mg/ml BSA, 1 unit *Taq* polymerase, and H₂O to 20 μ l. (PCR buffer II is available in 10X concentration from Perkin-Elmer, Norwalk, CT). In 1X concentration it contains 10 mM Tris pH 8.3 and 50 mM KCl. SYBR® Green (Molecular Probes, Eugene, OR) is a dye which fluoresces when bound to double stranded DNA. As double stranded PCR product is produced during amplification, the fluorescence from SYBR® Green increases. To each 20 μ l aliquot of amplification

mixture, 2 μ l of template RT is added, and amplification is carried out according to standard protocols. The results are expressed as the percent decrease in expression of the corresponding gene product relative to non-transfected cells, vehicle-only transfected (mock-transfected) cells, or cells transfected with reverse control oligonucleotides.

EXAMPLE 4: EFFECT OF EXPRESSION ON PROLIFERATION

- [00192] The effect of gene expression on the inhibition of cell proliferation can be assessed in metastatic breast cancer cell lines (MDA-MB-231 ("231")); SW620 colon colorectal carcinoma cells; SKOV3 cells (a human ovarian carcinoma cell line); or LNCaP, PC3, 22Rv1, MDA-PCA-2b, or DU145 prostate cancer cells.
- [00193] Cells are plated to approximately 60-80% confluency in 96-well dishes. Antisense or reverse control oligonucleotide is diluted to 2 μ M in OptiMEM™. The oligonucleotide-OptiMEM™ can then be added to a delivery vehicle, which delivery vehicle can be selected so as to be optimized for the particular cell type to be used in the assay. The oligo/delivery vehicle mixture is then further diluted into medium with serum on the cells. The final concentration of oligonucleotide for all experiments can be about 300 nM.
- [00194] Antisense oligonucleotides are prepared as described above (see Example 3). Cells are transfected overnight at 37°C and the transfection mixture is replaced with fresh medium the next morning. Transfection is carried out as described above in Example 3.
- [00195] Those antisense oligonucleotides that result in inhibition of proliferation of SW620 cells indicate that the corresponding gene plays a role in production or maintenance of the cancerous phenotype in cancerous colon cells. Those antisense oligonucleotides that inhibit proliferation in SKOV3 cells represent genes that play a role in production or maintenance of the cancerous phenotype in cancerous breast cells. Those antisense oligonucleotides that result in inhibition of proliferation of MDA-MB-231 cells indicate that the corresponding gene plays a role in production or maintenance of the cancerous phenotype in cancerous ovarian cells. Those antisense oligonucleotides that inhibit proliferation in LNCaP, PC3, 22Rv1, MDA-PCA-2b, or DU145 cells

represent genes that play a role in production or maintenance of the cancerous phenotype in cancerous prostate cells.

EXAMPLE 5: EFFECT OF GENE EXPRESSION ON CELL MIGRATION

[00196] The effect of gene expression on the inhibition of cell migration can be assessed in SW620 colon cancer cells using static endothelial cell binding assays, non-static endothelial cell binding assays, and transmigration assays.

[00197] For the static endothelial cell binding assay, antisense oligonucleotides are prepared as described above (see Example 3). Two days prior to use, colon cancer cells (CaP) are plated and transfected with antisense oligonucleotide as described above (see Examples 3 and 4). On the day before use, the medium is replaced with fresh medium, and on the day of use, the medium is replaced with fresh medium containing 2 μ M CellTracker green CMFDA (Molecular Probes, Inc.) and cells are incubated for 30 min. Following incubation, CaP medium is replaced with fresh medium (no CMFDA) and cells are incubated for an additional 30-60 min. CaP cells are detached using CMF PBS/2.5 mM EDTA or trypsin, spun and resuspended in DMEM/1% BSA/ 10 mM HEPES pH 7.0. Finally, CaP cells are counted and resuspended at a concentration of 1×10^6 cells/ml.

[00198] Endothelial cells (EC) are plated onto 96-well plates at 40-50% confluence 3 days prior to use. On the day of use, EC are washed 1X with PBS and 50 λ DMEM/1%BSA/10mM HEPES pH 7 is added to each well. To each well is then added 50K (50 λ) CaP cells in DMEM/1% BSA/ 10mM HEPES pH 7. The plates are incubated for an additional 30 min and washed 5X with PBS containing Ca^{++} and Mg^{++} . After the final wash, 100 μ L PBS is added to each well and fluorescence is read on a fluorescent plate reader (Ab492/Em 516 nm).

[00199] For the non-static endothelial cell binding assay, CaP are prepared as described above. EC are plated onto 24-well plates at 30-40% confluence 3 days prior to use. On the day of use, a subset of EC are treated with cytokine for 6 hours then washed 2X with PBS. To each well is then added 150-200K CaP cells in DMEM/1% BSA/ 10mM

HEPES pH 7. Plates are placed on a rotating shaker (70 RPM) for 30 min and then washed 3X with PBS containing Ca^{++} and Mg^{++} . After the final wash, 500 μL PBS is added to each well and fluorescence is read on a fluorescent plate reader (Ab492/Em 516 nm).

[00200] For the transmigration assay, CaP are prepared as described above with the following changes. On the day of use, CaP medium is replaced with fresh medium containing 5 μ M CellTracker green CMFDA (Molecular Probes, Inc.) and cells are incubated for 30 min. Following incubation, CaP medium is replaced with fresh medium (no CMFDA) and cells are incubated for an additional 30-60 min. CaP cells are detached using CMF PBS/2.5 mM EDTA or trypsin, spun and resuspended in EGM-2-MV medium. Finally, CaP cells are counted and resuspended at a concentration of 1×10^6 cells/ml.

[00201] EC are plated onto FluorBlok transwells (BD Biosciences) at 30-40% confluence 5-7 days before use. Medium is replaced with fresh medium 3 days before use and on the day of use. To each transwell is then added 50K labeled CaP. 30 min prior to the first fluorescence reading, 10 µg of FITC-dextran (10K MW) is added to the EC plated filter. Fluorescence is then read at multiple time points on a fluorescent plate reader (Ab492/Em 516 nm).

[00202] Those antisense oligonucleotides that result in inhibition of binding of SW620 colon cancer cells to endothelial cells indicate that the corresponding gene plays a role in the production or maintenance of the cancerous phenotype in cancerous colon cells. Those antisense oligonucleotides that result in inhibition of endothelial cell transmigration by SW620 colon cancer cells indicate that the corresponding gene plays a role in the production or maintenance of the cancerous phenotype in cancerous colon cells.

EXAMPLE 6: EFFECT OF GENE EXPRESSION ON COLONY FORMATION

[00203] The effect of gene expression upon colony formation of SW620 cells, SKOV3 cells, MD-MBA-231 cells, LNCaP cells, PC3 cells, 22Rv1 cells, MDA-PCA-2b cells,

and DU145 cells can be tested in a soft agar assay. Soft agar assays are conducted by first establishing a bottom layer of 2 ml of 0.6% agar in media plated fresh within a few hours of layering on the cells. The cell layer is formed on the bottom layer by removing cells transfected as described above from plates using 0.05% trypsin and washing twice in media. The cells are counted in a Coulter counter, and resuspended to 10^6 per ml in media. 10 μ l aliquots are placed with media in 96-well plates (to check counting with WST1), or diluted further for the soft agar assay. 2000 cells are plated in 800 μ l 0.4% agar in duplicate wells above 0.6% agar bottom layer. After the cell layer agar solidifies, 2 ml of media is dribbled on top and antisense or reverse control oligo (produced as described in Example 3) is added without delivery vehicles. Fresh media and oligos are added every 3-4 days. Colonies form in 10 days to 3 weeks. Fields of colonies are counted by eye. Wst-1 metabolism values can be used to compensate for small differences in starting cell number. Larger fields can be scanned for visual record of differences.

[00204] Those antisense oligonucleotides that result in inhibition of colony formation of SW620 cells indicate that the corresponding gene plays a role in production or maintenance of the cancerous phenotype in cancerous colon cells. Those antisense oligonucleotides that inhibit colony formation in SKOV3 cells represent genes that play a role in production or maintenance of the cancerous phenotype in cancerous breast cells. Those antisense oligonucleotides that result in inhibition of colony formation of MDA-MB-231 cells indicate that the corresponding gene plays a role in production or maintenance of the cancerous phenotype in cancerous ovarian cells. Those antisense oligonucleotides that inhibit colony formation in LNCaP, PC3, 22Rv1, MDA-PCA-2b, or DU145 cells represent genes that play a role in production or maintenance of the cancerous phenotype in cancerous prostate cells.

EXAMPLE 7: INDUCTION OF CELL DEATH UPON DEPLETION OF POLYPEPTIDES BY DEPLETION OF MRNA ("ANTISENSE KNOCKOUT")

[00205] In order to assess the effect of depletion of a target message upon cell death,

SW620 cells, or other cells derived from a cancer of interest, can be transfected for proliferation assays. For cytotoxic effect in the presence of cisplatin (cis), the same protocol is followed but cells are left in the presence of 2 μ M drug. Each day, cytotoxicity is monitored by measuring the amount of LDH enzyme released in the medium due to membrane damage. The activity of LDH is measured using the Cytotoxicity Detection Kit from Roche Molecular Biochemicals. The data is provided as a ratio of LDH released in the medium vs. the total LDH present in the well at the same time point and treatment (rLDH/tLDH). A positive control using antisense and reverse control oligonucleotides for BCL2 (a known anti-apoptotic gene) is included; loss of message for BCL2 leads to an increase in cell death compared with treatment with the control oligonucleotide (background cytotoxicity due to transfection).

EXAMPLE 8: FUNCTIONAL ANALYSIS OF GENE PRODUCTS DIFFERENTIALLY EXPRESSED IN COLON CANCER IN PATIENTS

[00206] The gene products of sequences of a gene differentially expressed in cancerous cells can be further analyzed to confirm the role and function of the gene product in tumorigenesis, *e.g.*, in promoting or inhibiting development of a metastatic phenotype. For example, the function of gene products corresponding to genes identified herein can be assessed by blocking function of the gene products in the cell. For example, where the gene product is secreted or associated with a cell surface membrane, blocking antibodies can be generated and added to cells to examine the effect upon the cell phenotype in the context of, for example, the transformation of the cell to a cancerous, particularly a metastatic, phenotype. In order to generate antibodies, a clone corresponding to a selected gene product is selected, and a sequence that represents a partial or complete coding sequence is obtained. The resulting clone is expressed, the polypeptide produced isolated, and antibodies generated. The antibodies are then combined with cells and the effect upon tumorigenesis assessed.

[00207] Where the gene product of the differentially expressed genes identified herein exhibits sequence homology to a protein of known function (*e.g.*, to a specific kinase or

protease) and/or to a protein family of known function (*e.g.*, contains a domain or other consensus sequence present in a protease family or in a kinase family), then the role of the gene product in tumorigenesis, as well as the activity of the gene product, can be examined using small molecules that inhibit or enhance function of the corresponding protein or protein family.

[00208] Additional functional assays include, but are not necessarily limited to, those that analyze the effect of expression of the corresponding gene upon cell cycle and cell migration. Methods for performing such assays are well known in the art.

EXAMPLE 9: CONTIG ASSEMBLY AND ADDITIONAL GENE CHARACTERIZATION

[00209] The sequences of the polynucleotides provided in the present invention can be used to extend the sequence information of the gene to which the polynucleotides correspond (*e.g.*, a gene, or mRNA encoded by the gene, having a sequence of the polynucleotide described herein). This expanded sequence information can in turn be used to further characterize the corresponding gene, which in turn provides additional information about the nature of the gene product (*e.g.*, the normal function of the gene product). The additional information can serve to provide additional evidence of the gene product's use as a therapeutic target, and provide further guidance as to the types of agents that can modulate its activity.

[00210] In one example, a contig is assembled using a sequence of a polynucleotide of the present invention, which is present in a clone. A "contig" is a contiguous sequence of nucleotides that is assembled from nucleic acid sequences having overlapping (*e.g.*, shared or substantially similar) sequence information. The sequences of publicly-available ESTs (Expressed Sequence Tags) and the sequences of various clones from several cDNA libraries synthesized at Chiron can be used in the contig assembly.

[00211] The contig is assembled using the software program Sequencer, version 4.05, according to the manufacturer's instructions and an overview alignment of the contiged sequences is produced. The sequence information obtained in the contig assembly can then be used to obtain a consensus sequence derived from the contig using the

Sequencher program. The consensus sequence is used as a query sequence in a TeraBLASTN search of the DGTI DoubleTwist Gene Index (DoubleTwist, Inc., Oakland, CA), which contains all the EST and non-redundant sequence in public databases.

[00212] Through contig assembly and the use of homology searching software programs, the sequence information provided herein can be readily extended to confirm, or confirm a predicted, gene having the sequence of the polynucleotides described in the present invention. Further the information obtained can be used to identify the function of the gene product of the gene corresponding to the polynucleotides described herein. While not necessary to the practice of the invention, identification of the function of the corresponding gene, can provide guidance in the design of therapeutics that target the gene to modulate its activity and modulate the cancerous phenotype (*e.g.*, inhibit metastasis, proliferation, and the like).

[00213] While the present invention has been described with reference to the specific embodiments thereof, it should be understood by those skilled in the art that various changes may be made and equivalents may be substituted without departing from the true spirit and scope of the invention. In addition, many modifications may be made to adapt a particular situation, material, composition of matter, process, process step or steps, to the objective, spirit and scope of the present invention. All such modifications are intended to be within the scope of the claims appended hereto.

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
10	16	III	Cecum	8.5	T3	G2	through muscularis propria approaching pericolic fat, but not at serosal surface	Pos	1/17	N1	Neg	M0	Moderately differentiated
15	21	III	Ascending colon	4.0	T3	G2	Extending into subserosal adipose tissue	Pos	3/8	N1	Neg	MX	invasive adenocarcinoma, moderately differentiated; focal perineural invasion is seen
52	71	II	Cecum	9.0	T3	G3	Invasion through muscularis propria, subserosal involvement; ileocecal valve involvement	Neg	0/12	N0	Neg	M0	Hyperplastic polyp in appendix.
121	140	II	Sigmoid	6	T4	G2	Invasion of muscularis propria into serosa, involving submucosa of urinary bladder	Neg	0/34	N0	Neg	M0	Perineural invasion; donut anastomosis Neg. One tubulovillous and one tubular adenoma with no high grade dysplasia.

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
125	144	II	Cecum	6	T3	G2	Invasion through the muscularis propria into subserosal adipose tissue. Ileocecal junction.	Neg	0/19	N0	Neg	M0	patient history of metastatic melanoma
128	147	III	Transverse colon	5.0	T3	G2	Invasion of muscularis propria into pericolonic fat	Pos	1/5	N1	Neg	M0	
130	149		Splenic flexure	5.5	T3		through wall and into surrounding adipose tissue	Pos	10/24	N2	Neg	M1	
133	152	II	Rectum	5.0	T3	G2	Invasion through muscularis propria into non-peritonealized pericolonic tissue; gross configuration is annular.	Neg	0/9	N0	Neg	M0	Small separate tubular adenoma (0.4 cm)
141	160	IV	Cecum	5.5	T3	G2	Invasion of muscularis propria into pericolonic adipose tissue, but not through serosa. Arising from tubular adenoma.	Pos	7/21	N2	Pos - Liver	M1	Perineural invasion identified adjacent to metastatic adenocarcinoma.

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
156	175	III	Hepatic flexure	3.8	T3	G2	Invasion through muscularis propria into subserosa/pericolonic adipose, no serosal involvement. Gross configuration annular.	Pos	2/13	N1	Neg	M0	Separate tubulovillous and tubular adenomas
228	247	III	Rectum	5.8	T3	G2 to G3	Invasion through muscularis propria to involve subserosal, perirectal adipose, and serosa	Pos	1/8	N1	Neg	MX	Hyperplastic polyps
264	283	II	Ascending colon	5.5	T3	G2	Invasion through muscularis propria into subserosal adipose tissue.	Neg	0/10	N0	Neg	M0	Tubulovillous adenoma with high grade dysplasia
266	285	III	Transverse colon	9	T3	G2	Invades through muscularis propria to involve pericolonic adipose, extends to serosa.	Neg	0/15	N1	Pos - Mesenteric deposit	MX	
267	286	III	Ileocecal	4.5	T2	G2	Confined to muscularis propria	Pos	2/12	N1	Neg	M0	

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
268	287	I	Cecum	6.5	T2	G2	Invades full thickness of muscularis propria, but mesenteric adipose free of malignancy	Neg	0/12	N0	Neg	M0	
278	297	III	Rectum	4	T3	G2	Invasion into perirectal adipose tissue.	Pos	7/10	N2	Neg	M0	Descending colon polyps, no HGD or carcinoma identified..
295	314	II	Ascending colon	5.0	T3	G2	Invasion through muscularis propria into percolic adipose tissue.	Neg	0/12	N0	Neg	M0	Melanosis coli and diverticular disease.
296	315	III	Cecum	5.5	T3	G2	Invasion through muscularis propria and invades pericolic adipose tissue. Ileocecal junction.	Pos	2/12	N1	Neg	M0	Tubulovillous adenoma (2.0 cm) with no high grade dysplasia. Neg. liver biopsy.
300	319	III	Descending colon	5.2	T2	G2	through the muscularis propria into pericolic fat	Pos	2/2	N1	Neg	M0	
322	341	II	Sigmoid	7	T3	G2	through the muscularis propria into pericolic fat	Neg	0/5	N0	Neg	M0	vascular invasion is identified
339	358	II	Rectosigmoid	6	T3	G2	Extends into perirectal fat but does not reach serosa	Neg	0/6	N0	Neg	M0	1 hyperplastic polyp identified

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
341	360	II	Ascending colon	2 cm invasive	T3	G2	Invasion through muscularis propria to involve pericolic fat. Arising from villous adenoma.	Neg	0/4	N0	Neg	MX	
356	375	II	Sigmoid	6.5	T3	G2	Through colon wall into subserosal adipose tissue. No serosal spread seen.	Neg	0/4	N0	Neg	M0	
360	412	III	Ascending colon	4.3	T3	G2	Invasion through muscularis propria to pericolic fat	Pos	1/5	N1	Neg	M0	Two mucosal polyps
392	444	IV	Ascending colon	2	T3	G2	Invasion through muscularis propria into subserosal adipose tissue, not serosa.	Pos	1/6	N1	Pos - Liver	M1	Tumor arising at prior ileocolic surgical anastomosis.
393	445	II	Cecum	6.0	T3	G2	Cecum, invades through muscularis propria to involve subserosal adipose tissue but not serosa.	Neg	0/21	N0	Neg	M0	
413	465	IV	Cecum	4.8	T3	G2	Invasive through muscularis to involve periserosal fat; abutting ileocecal junction.	Neg	0/7	N0	Pos - Liver	M1	redagnosis of oophorectomy path to metastatic colon cancer.

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
452	504	II	Ascending colon	4	T3	G2	through muscularis propria approaching pericolic fat, but not at serosal surface	Neg	0/39	N0	Neg	M0	
505	383	IV		7.5	T3	G2	Invasion through muscularis propria involving pericolic adipose, serosal surface uninvolved	Pos	2/17	N1	Pos - Liver	M1	Anatomical location of primary not notated in report. Evidence of chronic colitis.
517	395	IV	Sigmoid	3	T3	G2	penetrates muscularis propria, involves pericolic fat.	Pos	6/6	N2	Neg	M0	No mention of distant met in report
534	553	II	Ascending colon	12	T3	G3	Invasion through the muscularis propria involving pericolic fat. Serosa free of tumor.	Neg	0/8	N0	Neg	M0	Omentum with fibrosis and fat necrosis. Small bowel with acute and chronic serositis, focal abscess and adhesions.

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
546	565	IV	Ascending colon	5.5	T3	G2	Invasion through muscularis propria extensively through submucosal and extending to serosa.	Pos	6/12	N2	Pos - Liver	M1	
577	596	II	Cecum	11.5	T3	G2	Invasion through the bowel wall, into subserosal adipose. Serosal surface free of tumor.	Neg	0/58	N0	Neg	M0	Appendix dilated and fibrotic, but not involved by tumor
695	714	II	Cecum	14.0	T3	G2	extending through bowel wall into serosal fat	Neg	0/22	N0	Neg	MX	moderately differentiated adenocarcinoma with mucinous differentiation (% not stated), tubular adenoma and hyperplastic polyps present,
784	803	IV	Ascending colon	3.5	T3	G3	through muscularis propria into pericolic soft tissues	Pos	5/17	N2	Pos - Liver	M1	invasive poorly differentiated adenosquamous carcinoma

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
786	805	IV	Descending colon	9.5	T3	G2	through muscularis propria into pericolic fat, but not at serosal surface	Neg	0/12	N0	Pos - Liver	M1	moderately differentiated invasive adenocarcinoma
787	806	II	Rectosigmoid	2.5	T3	G2-G3	Invasion of muscularis propria into soft tissue	Neg		N0	Neg	MX	Peritumoral lymphocytic response; 5 LN examined in pericolic fat, no metastases observed.
789	808	IV	Cecum	5.0	T3	G2-G3	Extending through muscularis propria into pericolic fat	Pos	5/10	N2	Pos - Liver	M1	Three fungating lesions examined.
790	809	IV	Rectum	6.8	T3	G1-G2	Invading through muscularis propria into perirectal fat	Pos	3/13	N1	Pos - Liver	M1	
791	810	IV	Ascending colon	5.8	T3	G3	Through the muscularis propria into pericolic fat	Pos	13/25	N2	Pos - Liver	M1	poorly differentiated invasive colonic adenocarcinoma

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
888	908	IV	Ascending colon	2.0	T2	G1	Into muscularis propria	Pos	3/21	N0	Pos - Liver	M1	well to moderately differentiated adenocarcinoma; this patient has tumors of the ascending colon and the sigmoid colon
889	909	IV	Cecum	4.8	T3	G2	Through muscularis propria into subserosal tissue	Pos	1/4	N1	Pos - Liver	M1	moderately differentiated adenocarcinoma
890	910	IV	Ascending colon		T3	G2	Through muscularis propria into subserosa.	Pos	11/15	N2	Pos - Liver	M1	
891	911	IV	Rectum	5.2	T3	G2	Invasion through muscularis propria into perirectal soft tissue	Pos	4/15	N2	Pos - Liver	M1	Perineural invasion present.
892	912	IV	Sigmoid	5.0	T3	G2	Invasion into pericolic soft tissue. Tumor focally invading skeletal muscle attached to colon.	Pos	1/28	N1	Pos - Liver, left and right lobe, omentum	M1	Perineural invasion present, extensive. Patient with a history of colon cancer.

Table 1

Pt ID	Path ID	Grp	Anatom Loc	Size	Grade	Histo Grade	Local Invasion	Lymph Met	Lymph Met Incid	Reg Lymph Grade	Dist Met & Loc	Dist Met Grade	Comment
893	913	IV	Transverse colon	6.0	T3	G2-G3	Through muscularis propria into pericolic fat	Pos	14/17	N2	Pos - Liver	M1	Perineural invasion focally present. Omentum mass, but resection with no tumor identified.
989	1009	IV	Sigmoid	6.0	T3	G2	Invasion through colon wall and focally involving subserosal tissue.	Pos	1/7	N1	Pos - Liver	M1	Primary adenocarcinoma arising from tubulovillous adenoma.

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
1	18	M00026919B:A10	MA40:F01
2	20	M00026919B:E07	MA40:G01
3	22	M00026919D:F04	MA40:H01
4	54	M00026914D:G06	MA40:A01
5	56	M00026950A:A09	MA40:D07
6	67	M00003820C:A09	MA244:B01
7	73	M00001673A:G03	MA244:E01
8	115	M00007939A:A12	MA27:B07
9	119	M00007939A:B11	MA27:D07
10	127	M00007939B:G03	MA27:H07
11	166	M00007997D:G08	MA29:C01
12	220	M00026894C:E11	MA39:F07
13	238	M00001391A:C05	MA15:G01
14	294	M00006818A:A06	MA240:C01
15	393	M00023278A:F09	MA36:E01
16	405	M00023299A:G01	MA36:C07
17	411	M00023301A:A11	MA36:F07
18	453	M00008050A:D12	MA30:C01
19	460	M00022135A:C04	MA35:F01
20	462	M00022137A:A05	MA35:G01
21	466	M00022176C:A07	MA35:A07
22	471	M00008077B:A08	MA30:D07
23	477	M00008077C:D09	MA30:G07
24	492	M00022081C:E09	MA34:F01
25	495	M00001662A:G06	MA24:H01
26	504	M00022102B:B11	MA34:D07
27	506	M00022102B:E08	MA34:E07
28	556	M00022569D:G06	MA22:F01
29	577	M00001358B:B11	MA14:A01
30	578	M00001429A:G04	MA16:A01
31	579	M00001358B:F05	MA14:B01
32	582	M00001429C:C03	MA16:C01
33	585	M00001359D:B04	MA14:E01
34	587	M00001360A:E10	MA14:F01
35	589	M00001360C:B05	MA14:G01
36	590	M00001430B:F01	MA16:G01
37	592	M00001430C:A02	MA16:H01
38	594	M00001445C:H05	MA16:A07
39	596	M00001445D:D07	MA16:B07
40	605	M00001374D:D10	MA14:G07
41	607	M00001375A:A08	MA14:H07
42	643	M00006600A:E07	MA241:B01
43	661	M00006690A:F06	MA241:C07
44	739	M00023325D:A08	MA37:B02
45	742	M00026921D:F12	MA40:C02
46	743	M00023325D:F06	MA37:D02
47	750	M00026924A:E09	MA40:G02
48	823	M00007940C:A04	MA27:D08
49	827	M00007941C:H03	MA27:F08
50	828	M00021638B:F03	MA31:F08

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
51	831	M00007941D:C04	MA27:H08
52	842	M00004054D:D02	
53	857	M00001507A:A10	MA23:E08
54	858	M00004198D:A01	
55	861	M00001528C:B08	MA23:G08
56	868	M00008002C:A05	MA29:B03
57	880	M00008006C:H05	MA29:H03
58	898	M00026850C:A01	MA39:A02
59	908	M00026853D:C07	MA39:F02
60	920	M00026896A:C09	MA39:D08
61	934	M00001391B:D02	MA15:C02
62	938	M00001391B:H05	MA15:E02
63	940	M00001391D:C07	MA15:F02
64	942	M00001392B:B01	MA15:G02
65	954	M00001407B:C03	MA15:E08
66	1011	M00005635B:E02	MA242:B08
67	1017	M00005636B:B06	MA242:E08
68	1018	M00006971A:E06	MA240:E08
69	1019	M00005636D:B08	MA242:F08
70	1107	M00023302C:A04	MA36:B08
71	1117	M00023305A:C02	MA36:G08
72	1172	M00022180A:E08	MA35:B08
73	1178	M00022181C:H11	MA35:E08
74	1193	M00001673A:C11	
75	1201	M00003853B:C07	
76	1204	M00022106B:D04	MA34:B08
77	1209	M00003858B:G01	MA24:E08
78	1214	M00022109B:A11	MA34:G08
79	1260	M00022921A:H05	MA22:F02
80	1282	M00001430D:H07	MA16:A02
81	1283	M00001360D:H10	MA14:B02
82	1284	M00001431A:E01	MA16:B02
83	1285	M00001361A:A02	MA14:C02
84	1295	M00001362A:B03	MA14:H02
85	1297	M00001376C:C01	MA14:A08
86	1300	M00001449A:D02	MA16:B08
87	1301	M00001378B:A02	MA14:C08
88	1302	M00001450A:D12	MA16:C08
89	1303	M00001378C:D08	MA14:D08
90	1310	M00001451D:F01	MA16:G08
91	1349	M00006628B:A02	MA241:C02
92	1444	M00026926C:F03	MA40:B03
93	1458	M00026963B:H03	MA40:A09
94	1464	M00026964A:E10	MA40:D09
95	1468	M00026965C:A11	MA40:F09
96	1493	M00001398A:D11	MA244:C09
97	1512	M00008095C:H08	MA31:D03
98	1523	M00007942A:F12	MA27:B09
99	1554	M00004212B:B12	MA25:A09
100	1576	M00008014C:E11	MA29:D05

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
101	1578	M00008015A:B05	MA29:E05
102	1586	M00022049A:B08	MA33:A05
103	1602	M00026856B:F08	MA39:A03
104	1604	M00026856C:H12	MA39:B03
105	1628	M00026900D:A03	MA39:F09
106	1630	M00026900D:C12	MA39:G09
107	1632	M00026901D:A03	MA39:H09
108	1642	M00001393A:G03	MA15:E03
109	1656	M00001409B:D03	MA15:D09
110	1658	M00001409B:G01	MA15:E09
111	1660	M00001410C:C09	MA15:F09
112	1662	M00001410D:A03	MA15:G09
113	1697	M00005504D:F06	MA242:A03
114	1709	M00005510D:H10	MA242:G03
115	1726	M00006990D:D06	MA240:G09
116	1761	SL146	MA248:A03
117	1775	SL153	MA248:H03
118	1785	SL198	MA248:E09
119	1787	SL199	MA248:F09
120	1789	SL200	MA248:G09
121	1797	M00023283D:C03	MA36:C03
122	1799	M00023283D:D03	MA36:D03
123	1801	M00023284A:D09	MA36:E03
124	1807	M00023285D:C05	MA36:H03
125	1809	M00023306C:H11	MA36:A09
126	1813	M00023308D:B06	MA36:C09
127	1817	M00023309D:H04	MA36:E09
128	1819	M00023310A:D07	MA36:F09
129	1875	M00008079C:H04	MA30:B09
130	1883	M00008080B:B10	MA30:F09
131	1884	M00022198D:C02	MA35:F09
132	1886	M00022198D:G03	MA35:G09
133	1895	M00003768B:B09	MA24:D03
134	1910	M00022110C:A08	MA34:C09
135	1913	M00003886C:H08	MA24:E09
136	1960	M00023297B:A10	MA22:D03
137	1966	M00023314C:G05	MA22:G03
138	1991	M00001363B:C04	MA14:D03
139	1992	M00001434D:F08	MA16:D03
140	1994	M00001435B:A04	MA16:E03
141	1996	M00001435B:B09	MA16:F03
142	2000	M00001435C:F08	MA16:H03
143	2001	M00001381A:F03	MA14:A09
144	2004	M00001453B:E11	MA16:B09
145	2008	M00001453C:D02	MA16:D09
146	2050	M00007121D:A05	MA243:A03
147	2052	M00007122C:F03	MA243:B03
148	2053	M00006638A:G02	MA241:C03
149	2059	M00006639B:H09	MA241:F03
150	2064	M00007127C:C11	MA243:H03

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
151	2073	M00006720D:C11	MA241:E09
152	2075	M00006728C:E07	MA241:F09
153	2156	M00026931D:E08	MA40:F04
154	2158	M00026932D:B08	MA40:G04
155	2168	M00026969D:D02	MA40:D10
156	2169	M00023393B:E02	MA37:E10
157	2185	M00003782D:D06	MA244:E04
158	2189	M00004105D:B04	MA244:G04
159	2199	M00001556D:B11	MA244:D10
160	2234	M00021664B:G03	MA31:E10
161	2242	M00004078A:A07	
162	2263	M00001561A:B03	MA23:D10
163	2284	M00008023C:A06	MA29:F07
164	2286	M00008024C:F02	MA29:G07
165	2288	M00008024C:G06	MA29:H07
166	2292	M00022057C:H10	MA33:B07
167	2294	M00022059B:B06	MA33:C07
168	2324	M00026902B:F10	MA39:B10
169	2342	M00001394D:B08	MA15:C04
170	2354	M00001415A:G05	MA15:A10
171	2356	M00001416B:E03	MA15:B10
172	2368	M00001421B:B12	MA15:H10
173	2413	M00005528C:E02	MA242:G04
174	2513	M00023312D:F10	MA36:A10
175	2566	M00022157A:C06	MA35:C04
176	2576	M00022165A:A11	MA35:H04
177	2584	M00022206A:B10	MA35:D10
178	2601	M00003811B:F09	
179	2605	M00003812D:A11	
180	2606	M00022088D:C10	MA34:G04
181	2613	M00003910B:C12	
182	2689	M00001366A:F06	MA14:A04
183	2692	M00001435C:F12	MA16:B04
184	2694	M00001436B:E11	MA16:C04
185	2695	M00001366B:E01	MA14:D04
186	2696	M00001436C:C03	MA16:D04
187	2700	M00001437A:B01	MA16:F04
188	2702	M00001437B:B08	MA16:G04
189	2712	M00001467B:H05	
190	2716	M00001468A:D02	MA16:F10
191	2756	M00007131B:B11	MA243:B04
192	2761	M00006650A:A10	MA241:E04
193	2765	M00006653C:B09	MA241:G04
194	2766	M00007154B:H08	MA243:G04
195	2769	M00006740A:E02	MA241:A10
196	2770	M00021621A:D04	MA243:A10
197	2771	M00006740B:F11	MA241:B10
198	2773	M00006741C:A01	MA241:C10
199	2780	M00022171C:A04	MA243:F10
200	2858	M00026937C:B08	MA40:E05

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
201	2861	M00023367A:H06	MA37:G05
202	2876	M00026985C:E12	MA40:F11
203	2916	M00008100A:A07	MA31:B05
204	2921	M00007936B:H07	MA27:E05
205	2924	M00008100C:E05	MA31:F05
206	2937	M00007947B:B02	MA27:E11
207	2956	M00004105A:C09	MA25:F05
208	2957	M00001433C:D09	MA23:G05
209	2980	M00008027B:D09	MA29:B09
210	2984	M00008028D:B01	MA29:D09
211	2988	M00008039A:C09	MA29:F09
212	3026	M00026905A:A10	MA39:A11
213	3030	M00026905D:C05	MA39:C11
214	3054	M00001401B:A06	MA15:G05
215	3056	M00001402A:A08	MA15:H05
216	3105	M00005534C:E12	MA242:A05
217	3111	M00005542A:D09	MA242:D05
218	3132	M00007031D:E02	MA240:F11
219	3134	M00007032A:D04	MA240:G11
220	3135	M00005813C:F12	MA242:H11
221	3171	SL163	MA248:B05
222	3173	SL164	MA248:C05
223	3179	SL167	MA248:F05
224	3181	SL168	MA248:G05
225	3183	SL169	MA248:H05
226	3231	M00023320B:A03	MA36:H11
227	3238	M00005350B:F10	MA246:C05
228	3267	M00008069D:F01	MA30:B05
229	3268	M00022165B:C08	MA35:B05
230	3272	M00022165C:E12	MA35:D05
231	3274	M00022166C:E07	MA35:E05
232	3275	M00008072D:E12	MA30:F05
233	3282	M00022211B:D05	MA35:A11
234	3293	M00008089A:E09	MA30:G11
235	3317	M00003974D:E04	MA24:C11
236	3323	M00003980D:F10	MA24:F11
237	3327	M00003984D:C08	MA24:H11
238	3370	M00023373D:A01	MA22:E05
239	3376	M00023396D:D01	MA22:H05
240	3394	M00001437D:E12	MA16:A05
241	3396	M00001438A:B09	MA16:B05
242	3401	M00001369A:C07	MA14:E05
243	3404	M00001439C:A07	MA16:F05
244	3407	M00001369C:A05	MA14:H05
245	3410	M00001468D:B11	MA16:A11
246	3411	M00001386B:F08	MA14:B11
247	3419	M00001387A:A08	MA14:F11
248	3460	M00007163A:B10	MA243:B05
249	3465	M00006675C:A06	MA241:E05
250	3470	M00007191C:A06	MA243:G05

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
251	3471	M00006678A:D02	MA241:H05
252	3562	M00026941C:A12	MA40:E06
253	3578	M00026996A:E01	MA40:E12
254	3581	M00023401B:E06	MA37:G12
255	3584	M00027005B:D03	MA40:H12
256	3621	M00007937B:A02	MA27:C06
257	3622	M00021612C:E11	MA31:C06
258	3629	M00007938C:C12	MA27:G06
259	3675	M00001623C:A06	MA23:F12
260	3677	M00001630D:A11	MA23:G12
261	3682	M00008044B:E11	MA29:A11
262	3684	M00008044C:C10	MA29:B11
263	3686	M00008044D:B08	MA29:C11
264	3688	M00008044D:C05	MA29:D11
265	3706	M00022074C:A04	MA33:E11
266	3738	M00026910C:D12	MA39:E12
267	3742	M00026913A:D06	MA39:G12
268	3752	M00001402C:H08	MA15:D06
269	3756	M00001404C:C11	MA15:F06
270	3813	M00005587B:G05	MA242:C06
271	3814	M00006934D:D10	MA240:C06
272	3885	SL176	MA248:G06
273	3905	M00023295D:E05	MA36:A06
274	3921	M00023320B:C02	MA36:A12
275	3956	M00005401B:F12	MA246:B12
276	3979	M00008074D:C05	MA30:F06
277	3982	M00022175B:F06	MA35:G06
278	3998	M00022230B:C10	MA35:G12
279	4006	M00022093C:C08	MA34:C06
280	4008	M00022093C:C12	MA34:D06
281	4028	M00022132A:H07	MA34:F12
282	4066	M00023397B:D04	MA22:A06
283	4074	M00023399D:G04	MA22:E06
284	4098	M00001439D:C09	MA16:A06
285	4100	M00001441A:A09	MA16:B06
286	4101	M00001369D:E02	MA14:C06
287	4105	M00001371D:H10	MA14:E06
288	4107	M00001372A:D01	MA14:F06
289	4110	M00001444C:F03	MA16:G06
290	4112	M00001445A:B02	
291	4119	M00001388D:F11	MA14:D12
292	4124	M00001481C:A12	MA16:F12
293	4125	M00001389B:B05	MA14:G12
294	4127	M00001389C:G01	MA14:H12
295	4128	M00001482D:D11	MA16:H12
296	4183	M00006809B:F04	MA241:D12
297	8513	I:3325119:07A01:A01	MA127:A01
298	8517	I:3033345:07A01:C01	MA127:C01
299	8537	I:3176222:07A01:E07	MA127:E07
300	8542	I:2510627:07B01:G07	MA129:G07

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
301	8546	I:1705208:06B01:A01	MA125:A01
302	8566	I:1672781:06B01:C07	MA125:C07
303	8568	I:1712888:06B01:D07	MA125:D07
304	8570	I:1696224:06B01:E07	MA125:E07
305	8576	I:3935034:06B01:H07	MA125:H07
306	8617	I:1800114:03A01:E01	MA111:E01
307	8631	I:1976029:03A01:D07	MA111:D07
308	8634	I:1439934:03B01:E07	MA113:E07
309	8645	I:2512879:01A01:C01	MA103:C01
310	8660	I:2900277:01B01:B07	MA105:B07
311	8661	I:1479255:01A01:C07	MA103:C07
312	8738	I:2648612:04B01:A01	MA117:A01
313	8741	I:1889867:04A01:C01	MA115:C01
314	8743	I:1858905:04A01:D01	MA115:D01
315	8752	I:2591494:04B01:H01	MA117:H01
316	8754	I:2916261:04B01:A07	MA117:A07
317	8756	I:2397815:04B01:B07	MA117:B07
318	8760	I:2182095:04B01:D07	MA117:D07
319	8769	I:2506194:02A01:A01	MA107:A01
320	8773	I:1806219:02A01:C01	MA107:C01
321	8797	I:1729724:02A01:G07	MA107:G07
322	8845	I:1886842:05A02:G01	MA120:G01
323	8851	I:1352669:05A02:B07	MA120:B07
324	8854	I:1755847:05B02:C07	MA122:C07
325	8856	I:1803418:05B02:D07	MA122:D07
326	8860	I:1568725:05B02:F07	MA122:F07
327	8861	I:1857708:05A02:G07	MA120:G07
328	8862	I:1687060:05B02:G07	MA122:G07
329	8881	I:3407289:07A02:A07	MA128:A07
330	8883	I:1235535:07A02:B07	MA128:B07
331	8984	I:1525795:03B02:D07	MA114:D07
332	8991	I:3744592:03A02:H07	MA112:H07
333	8995	I:1485817:01A02:B01	MA104:B01
334	8996	I:2365149:01B02:B01	MA106:B01
335	8999	I:1439677:01A02:D01	MA104:D01
336	9006	I:2372275:01B02:G01	MA106:G01
337	9008	I:3211615:01B02:H01	MA106:H01
338	9012	I:2368282:01B02:B07	MA106:B07
339	9095	I:1737833:04A02:D01	MA116:D01
340	9100	I:2382192:04B02:F01	MA118:F01
341	9111	I:1958902:04A02:D07	MA116:D07
342	9118	I:1704472:04B02:G07	MA118:G07
343	9119	I:1903767:04A02:H07	MA116:H07
344	9125	I:1268080:02A02:C01	MA108:C01
345	9141	I:1347384:02A02:C07	MA108:C07
346	9168	I:2344817:08B01:H02	MA133:H02
347	9171	I:3236109:08A01:B08	MA131:B08
348	9247	I:2832506:07A01:H08	MA127:H08
349	9252	I:1673876:06B01:B02	MA125:B02
350	9258	I:3686211:06B01:E02	MA125:E02

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
351	9264	I:2449837:06B01:H02	MA125:H02
352	9270	I:1613874:06B01:C08	MA125:C08
353	9317	I:1813409:03A01:C02	MA111:C02
354	9329	I:1975514:03A01:A08	MA111:A08
355	9347	I:1403294:01A01:B02	MA103:B02
356	9352	I:2414624:01B01:D02	MA105:D02
357	9360	I:2901811:01B01:H02	MA105:H02
358	9364	I:2683564:01B01:B08	MA105:B08
359	9366	I:2725511:01B01:C08	MA105:C08
360	9441	I:1431273:04A01:A02	MA115:A02
361	9442	I:1636639:04B01:A02	MA117:A02
362	9448	I:2455617:04B01:D02	MA117:D02
363	9452	I:2952504:04B01:F02	MA117:F02
364	9457	I:1483847:04A01:A08	MA115:A08
365	9460	I:2923150:04B01:B08	MA117:B08
366	9467	I:1813133:04A01:F08	MA115:F08
367	9472	I:2510171:04B01:H08	MA117:H08
368	9487	I:2190284:02A01:H02	MA107:H02
369	9540	I:1522716:05B02:B02	MA122:B02
370	9549	I:1901271:05A02:G02	MA120:G02
371	9552	I:1820522:05B02:H02	MA122:H02
372	9553	I:2365295:05A02:A08	MA120:A08
373	9557	I:1335140:05A02:C08	MA120:C08
374	9560	I:1822577:05B02:D08	MA122:D08
375	9618	I:1306814:06B02:A08	MA126:A08
376	9624	I:3034694:06B02:D08	MA126:D08
377	9666	I:1453049:03B02:A02	MA114:A02
378	9672	I:1453748:03B02:D02	MA114:D02
379	9677	I:3001492:03A02:G02	MA112:G02
380	9685	I:3876715:03A02:C08	MA112:C08
381	9687	I:2992851:03A02:D08	MA112:D08
382	9694	I:1500649:03B02:G08	MA114:G08
383	9699	I:1512943:01A02:B02	MA104:B02
384	9703	I:1467565:01A02:D02	MA104:D02
385	9720	I:2455118:01B02:D08	MA106:D08
386	9722	I:2840251:01B02:E08	MA106:E08
387	9770	I:2911347:10B02:E02	MA67:E02
388	9790	I:1812030:10B02:G08	MA67:G08
389	9820	I:2663606:04B02:F08	MA118:F08
390	9833	I:1308333:02A02:E02	MA108:E02
391	9834	I:1578941:02B02:E02	MA110:E02
392	9847	I:1535439:02A02:D08	MA108:D08
393	9856	I:1857475:02B02:H08	MA110:H08
394	9884	I:2908878:08B01:F09	MA133:F09
395	9925	I:2830575:07A01:C03	MA127:C03
396	9934	I:1557906:07B01:G03	MA129:G03
397	9964	I:2200604:06B01:F03	MA125:F03
398	9973	I:1653326:06A01:C09	MA123:C09
399	9981	I:1720149:06A01:G09	MA123:G09
400	10030	I:1560987:03B01:G03	MA113:G03

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
401	10046	I:1510714:03B01:G09	MA113:G09
402	10050	I:2501484:01B01:A03	MA105:A03
403	10051	I:1379063:01A01:B03	MA103:B03
404	10054	I:2797902:01B01:C03	MA105:C03
405	10062	I:1805613:01B01:G03	MA105:G03
406	10063	I:1524885:01A01:H03	MA103:H03
407	10064	I:2888464:01B01:H03	MA105:H03
408	10148	I:1992788:04B01:B03	MA117:B03
409	10155	I:1413451:04A01:F03	MA115:F03
410	10166	I:2779515:04B01:C09	MA117:C09
411	10206	I:1583076:02B01:G09	MA109:G09
412	10243	I:3070110:05A02:B03	MA120:B03
413	10255	I:1904493:05A02:H03	MA120:H03
414	10257	I:2860815:05A02:A09	MA120:A09
415	10285	I:1930135:07A02:G03	MA128:G03
416	10318	I:3747901:06B02:G03	MA126:G03
417	10321	I:1720946:06A02:A09	MA124:A09
418	10328	I:2877413:06B02:D09	MA126:D09
419	10330	I:3035279:06B02:E09	MA126:E09
420	10393	I:2503913:03A02:E09	MA112:E09
421	10403	I:1517380:01A02:B03	MA104:B03
422	10406	I:3138128:01B02:C03	MA106:C03
423	10409	I:2453722:01A02:E03	MA104:E03
424	10417	I:1414260:01A02:A09	MA104:A09
425	10418	I:2891247:01B02:A09	MA106:A09
426	10427	I:1682176:01A02:F09	MA104:F09
427	10503	I:2739076:04A02:D03	MA116:D03
428	10508	I:1900378:04B02:F03	MA118:F03
429	10509	I:1603391:04A02:G03	MA116:G03
430	10517	I:2018222:04A02:C09	MA116:C09
431	10523	I:1327263:04A02:F09	MA116:F09
432	10547	I:1734393:02A02:B09	MA108:B09
433	10553	I:2190607:02A02:E09	MA108:E09
434	10569	I:2447969:08A01:E04	MA131:E04
435	10592	I:1753033:08B01:H10	MA133:H10
436	10650	I:2456393:07B01:E10	MA129:E10
437	10658	I:1719920:06B01:A04	MA125:A04
438	10672	I:2927362:06B01:H04	MA125:H04
439	10684	I:4082816:06B01:F10	MA125:F10
440	10721	I:1803446:03A01:A04	MA111:A04
441	10725	I:1557490:03A01:C04	MA111:C04
442	10746	I:1445895:03B01:E10	MA113:E10
443	10767	I:1336836:01A01:H04	MA103:H04
444	10778	I:1802745:01B01:E10	MA105:E10
445	10784	I:2503003:01B01:H10	MA105:H10
446	10827	I:1655377:10A01:F04	MA64:F04
447	10849	I:1430662:04A01:A04	MA115:A04
448	10861	I:3335055:04A01:G04	MA115:G04
449	10868	I:2457671:04B01:B10	MA117:B10
450	10901	I:1641421:02A01:C10	MA107:C10

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
451	10906	I:1655225:02B01:E10	MA109:E10
452	10947	I:1313325:05A02:B04	MA120:B04
453	10962	I:1558081:05B02:A10	MA122:A10
454	10975	I:1889191:05A02:H10	MA120:H10
455	10997	I:3495906:07A02:C10	MA128:C10
456	11095	I:3704132:03A02:D10	MA112:D10
457	11100	I:1636553:03B02:F10	MA114:F10
458	11104	I:1402228:03B02:H10	MA114:H10
459	11107	I:1361963:01A02:B04	MA104:B04
460	11111	I:1510424:01A02:D04	MA104:D04
461	11112	I:2918558:01B02:D04	MA106:D04
462	11127	I:1731061:01A02:D10	MA104:D10
463	11201	I:2579602:04A02:A04	MA116:A04
464	11202	I:2824181:04B02:A04	MA118:A04
465	11203	I:2123183:04A02:B04	MA116:B04
466	11221	I:1958560:04A02:C10	MA116:C10
467	11229	I:1447903:04A02:G10	MA116:G10
468	11257	I:1875576:02A02:E10	MA108:E10
469	11262	I:1709457:02B02:G10	MA110:G10
470	11278	I:2155675:08B01:G05	MA133:G05
471	11329	I:1635069:07A01:A05	MA127:A05
472	11341	I:1453445:07A01:G05	MA127:G05
473	11351	I:3002566:07A01:D11	MA127:D11
474	11365	I:1631511:06A01:C05	MA123:C05
475	11375	I:1610523:06A01:H05	MA123:H05
476	11386	I:3297656:06B01:E11	MA125:E11
477	11392	I:2509730:06B01:H11	MA125:H11
478	11432	I:2121863:03B01:D05	MA113:D05
479	11434	I:1413704:03B01:E05	MA113:E05
480	11441	I:1626232:03A01:A11	MA111:A11
481	11460	I:2354446:01B01:B05	MA105:B05
482	11466	I:2916753:01B01:E05	MA105:E05
483	11473	I:2555034:01A01:A11	MA103:A11
484	11480	I:2804190:01B01:D11	MA105:D11
485	11481	I:1814488:01A01:E11	MA103:E11
486	11482	I:2474163:01B01:E11	MA105:E11
487	11485	I:1402967:01A01:G11	MA103:G11
488	11543	I:2821541:10A01:D11	MA64:D11
489	11554	I:2888814:04B01:A05	MA117:A05
490	11557	I:1451005:04A01:C05	MA115:C05
491	11567	I:1457726:04A01:H05	MA115:H05
492	11568	I:2883195:04B01:H05	MA117:H05
493	11581	I:1603605:04A01:G11	MA115:G11
494	11583	I:2832224:04A01:H11	MA115:H11
495	11585	I:2231364:02A01:A05	MA107:A05
496	11612	I:1595081:02B01:F11	MA109:F11
497	11654	I:1877913:05B02:C05	MA122:C05
498	11660	I:1666130:05B02:F05	MA122:F05
499	11664	I:1709995:05B02:H05	MA122:H05
500	11683	I:3872557:07A02:B05	MA128:B05

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
501	11705	I:2734906:07A02:E11	MA128:E11
502	11715	I:1798585:06A02:B05	MA124:B05
503	11723	I:1683389:06A02:F05	MA124:F05
504	11725	I:1704517:06A02:G05	MA124:G05
505	11728	I:2792982:06B02:H05	MA126:H05
506	11736	I:3511355:06B02:D11	MA126:D11
507	11777	I:1738060:03A02:A05	MA112:A05
508	11780	I:1810821:03B02:B05	MA114:B05
509	11785	I:2451279:03A02:E05	MA112:E05
510	11786	I:1431166:03B02:E05	MA114:E05
511	11794	I:2949427:03B02:A11	MA114:A11
512	11802	I:1458366:03B02:E11	MA114:E11
513	11806	I:1525881:03B02:G11	MA114:G11
514	11817	I:2071473:01A02:E05	MA104:E05
515	11829	I:2481012:01A02:C11	MA104:C11
516	11830	I:2816931:01B02:C11	MA106:C11
517	11836	I:1806769:01B02:F11	MA106:F11
518	11922	I:2636634:04B02:A11	MA118:A11
519	11962	I:1649959:02B02:E11	MA110:E11
520	11964	I:1633719:02B02:F11	MA110:F11
521	11966	I:1901035:02B02:G11	MA110:G11
522	11990	I:2503879:08B01:C12	MA133:C12
523	12036	I:2383065:07B01:B06	MA129:B06
524	12043	I:3357245:07A01:F06	MA127:F06
525	12045	I:2832314:07A01:G06	MA127:G06
526	12055	I:3667096:07A01:D12	MA127:D12
527	12071	I:1798283:06A01:D06	MA123:D06
528	12131	I:1648206:03A01:B06	MA111:B06
529	12148	I:3360476:03B01:B12	MA113:B12
530	12150	I:2500511:03B01:C12	MA113:C12
531	12152	I:1730806:03B01:D12	MA113:D12
532	12166	I:2479074:01B01:C06	MA105:C06
533	12170	I:1635004:01B01:E06	MA105:E06
534	12174	I:2378569:01B01:G06	MA105:G06
535	12183	I:2207849:01A01:D12	MA103:D12
536	12187	I:1504554:01A01:F12	MA103:F12
537	12258	I:2989991:04B01:A06	MA117:A06
538	12260	I:2852561:04B01:B06	MA117:B06
539	12277	I:2832839:04A01:C12	MA115:C12
540	12282	I:2845548:04B01:E12	MA117:E12
541	12292	I:1251819:02B01:B06	MA109:B06
542	12296	I:1672930:02B01:D06	MA109:D06
543	12298	I:2122820:02B01:E06	MA109:E06
544	12303	I:2174920:02A01:H06	MA107:H06
545	12362	I:1875994:05B02:E06	MA122:E06
546	12365	I:1858644:05A02:G06	MA120:G06
547	12425	I:1700047:06A02:E06	MA124:E06
548	12426	I:1718257:06B02:E06	MA126:E06
549	12427	I:1612306:06A02:F06	MA124:F06
550	12443	I:1637427:06A02:F12	MA124:F12

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
551	12499	I:2513883:03A02:B12	MA112:B12
552	12525	I:2645840:01A02:G06	MA104:G06
553	12529	I:1737403:01A02:A12	MA104:A12
554	12544	I:1733522:01B02:H12	MA106:H12
555	17049	RG:160664:10006:E07	MA155:E07
556	17065	I:747335:16A01:E01	MA87:E01
557	17071	I:2085191:16A01:H01	MA87:H01
558	17081	I:1211126:16A01:E07	MA87:E07
559	17157	RG:669310:10010:C01	MA159:C01
560	17167	RG:730402:10010:H01	MA159:H01
561	17174	RG:1047541:10012:C07	MA161:C07
562	17178	RG:1161753:10012:E07	MA161:E07
563	17194	I:1218464:17B01:E01	MA93:E01
564	17214	I:958633:17B01:G07	MA93:G07
565	17236	I:1602726:09B01:B07	MA137:B07
566	17379	RG:205212:10007:B01	MA156:B01
567	17395	RG:207395:10007:B07	MA156:B07
568	17422	I:349535:16B02:G01	MA90:G01
569	17423	I:2323525:16A02:H01	MA88:H01
570	17432	I:1965049:16B02:D07	MA90:D07
571	17437	I:2054436:16A02:G07	MA88:G07
572	17515	RG:1506197:10013:F01	MA162:F01
573	17518	RG:1871436:10015:G01	MA164:G01
574	17524	RG:1705470:10015:B07	MA164:B07
575	17556	I:546910:17B02:B07	MA94:B07
576	17580	I:1799023:09B02:F01	MA138:F01
577	17584	I:2380380:09B02:H01	MA138:H01
578	17675	I:2319269:18A01:F02	MA95:F02
579	17687	I:2296344:18A01:D08	MA95:D08
580	17737	RG:155066:10006:E02	MA155:E02
581	17741	RG:180135:10006:G02	MA155:G02
582	17755	RG:178093:10006:F08	MA155:F08
583	17757	RG:184042:10006:G08	MA155:G08
584	17761	I:1741643:16A01:A02	MA87:A02
585	17860	RG:928026:10012:B02	MA161:B02
586	17862	RG:1032969:10012:C02	MA161:C02
587	17872	RG:1322660:10012:H02	MA161:H02
588	17876	RG:968474:10012:B08	MA161:B08
589	17878	RG:1047592:10012:C08	MA161:C08
590	17914	I:617750:17B01:E08	MA93:E08
591	17934	I:2808775:09B01:G02	MA137:G02
592	18035	I:966692:18A02:B08	MA96:B08
593	18085	RG:209240:10007:C02	MA156:C02
594	18087	RG:223355:10007:D02	MA156:D02
595	18095	RG:267629:10007:H02	MA156:H02
596	18134	I:2246234:16B02:C08	MA90:C08
597	18212	RG:1696513:10015:B02	MA164:B02
598	18216	RG:1733895:10015:D02	MA164:D02
599	18225	RG:1353930:10013:A08	MA162:A08
600	18238	RG:1881947:10015:G08	MA164:G08

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SEQ ID NO	Spot ID	Clone ID	MAClone ID
601	18443	RG:166575:10006:F03	MA155:F03
602	18465	I:1998994:16A01:A03	MA87:A03
603	18471	I:1953051:16A01:D03	MA87:D03
604	18473	I:518826:16A01:E03	MA87:E03
605	18483	I:81490:16A01:B09	MA87:B09
606	18572	RG:1256163:10012:F03	MA161:F03
607	18584	RG:1132085:10012:D09	MA161:D09
608	18614	I:2132717:17B01:C09	MA93:C09
609	18620	I:1998428:17B01:F09	MA93:F09
610	18787	RG:206694:10007:B03	MA156:B03
611	18811	RG:261714:10007:F09	MA156:F09
612	18821	I:1461515:16A02:C03	MA88:C03
613	18831	I:338859:16A02:H03	MA88:H03
614	18845	I:1425861:16A02:G09	MA88:G09
615	18848	I:1928644:16B02:H09	MA90:H09
616	18917	RG:1404414:10013:C03	MA162:C03
617	18919	RG:1415437:10013:D03	MA162:D03
618	18920	RG:1734353:10015:D03	MA164:D03
619	18926	RG:1872251:10015:G03	MA164:G03
620	18929	RG:1354408:10013:A09	MA162:A09
621	18930	RG:1690198:10015:A09	MA164:A09
622	18937	RG:1476452:10013:E09	MA162:E09
623	18988	I:2069305:09B02:F03	MA138:F03
624	19088	I:1966067:18B01:H04	MA97:H04
625	19090	I:2128547:18B01:A10	MA97:A10
626	19143	RG:149960:10006:D04	MA155:D04
627	19147	RG:171569:10006:F04	MA155:F04
628	19163	RG:178638:10006:F10	MA155:F10
629	19167	RG:195122:10006:H10	MA155:H10
630	19195	I:814216:16A01:F10	MA87:F10
631	19265	RG:491163:10010:A04	MA159:A04
632	19266	RG:827185:10012:A04	MA161:A04
633	19272	RG:1129102:10012:D04	MA161:D04
634	19279	RG:730938:10010:H04	MA159:H04
635	19282	RG:925984:10012:A10	MA161:A10
636	19283	RG:668442:10010:B10	MA159:B10
637	19284	RG:1028911:10012:B10	MA161:B10
638	19285	RG:684866:10010:C10	MA159:C10
639	19292	RG:1283076:10012:F10	MA161:F10
640	19309	I:627654:17A01:G04	MA91:G04
641	19319	I:1833801:17A01:D10	MA91:D10
642	19328	I:961473:17B01:H10	MA93:H10
643	19348	I:2556708:09B01:B10	MA137:B10
644	19511	RG:243565:10007:D10	MA156:D10
645	19517	RG:266649:10007:G10	MA156:G10
646	19524	I:2013513:16B02:B04	MA90:B04
647	19539	I:2312442:16A02:B10	MA88:B10
648	19543	I:2060626:16A02:D10	MA88:D10
649	19623	RG:1415858:10013:D04	MA162:D04
650	19627	RG:1517435:10013:F04	MA162:F04

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SEQ ID NO	Spot ID	Clone ID	MAClone ID
651	19632	RG:1914716:10015:H04	MA164:H04
652	19633	RG:1354528:10013:A10	MA162:A10
653	19636	RG:1706414:10015:B10	MA164:B10
654	19653	I:1998510:17A02:C04	MA92:C04
655	19678	I:899118:17B02:G10	MA94:G10
656	19684	I:2680168:09B02:B04	MA138:B04
657	19690	I:1354558:09B02:E04	MA138:E04
658	19708	I:1665871:09B02:F10	MA138:F10
659	19782	I:1922084:18B01:C05	MA97:C05
660	19795	I:2307946:18A01:B11	MA95:B11
661	19798	I:1923572:18B01:C11	MA97:C11
662	19851	RG:171993:10006:F05	MA155:F05
663	19859	RG:129317:10006:B11	MA155:B11
664	19863	RG:153244:10006:D11	MA155:D11
665	19871	RG:196236:10006:H11	MA155:H11
666	19893	I:557538:16A01:C11	MA87:C11
667	19899	I:782235:16A01:F11	MA87:F11
668	19980	RG:1257341:10012:F05	MA161:F05
669	19981	RG:727387:10010:G05	MA159:G05
670	19992	RG:1145235:10012:D11	MA161:D11
671	19995	RG:725145:10010:F11	MA159:F11
672	19999	RG:740079:10010:H11	MA159:H11
673	20042	I:1873176:09B01:E05	MA137:E05
674	20056	I:2081974:09B01:D11	MA137:D11
675	20141	I:2107723:18A02:G05	MA96:G05
676	20211	RG:207777:10007:B11	MA156:B11
677	20213	RG:221172:10007:C11	MA156:C11
678	20230	I:1968436:16B02:C05	MA90:C05
679	20253	I:2060973:16A02:G11	MA88:G11
680	20323	RG:1369494:10013:B05	MA162:B05
681	20330	RG:1752177:10015:E05	MA164:E05
682	20331	RG:1519327:10013:F05	MA162:F05
683	20338	RG:1694569:10015:A11	MA164:A11
684	20346	RG:1839794:10015:E11	MA164:E11
685	20359	I:514124:17A02:D05	MA92:D05
686	20365	I:997782:17A02:G05	MA92:G05
687	20412	I:1709364:09B02:F11	MA138:F11
688	20485	I:2004896:18A01:C06	MA95:C06
689	20555	RG:172982:10006:F06	MA155:F06
690	20557	RG:180978:10006:G06	MA155:G06
691	20563	RG:129528:10006:B12	MA155:B12
692	20573	RG:186511:10006:G12	MA155:G12
693	20580	I:2005910:16B01:B06	MA89:B06
694	20583	I:620871:16A01:D06	MA87:D06
695	20593	I:1920819:16A01:A12	MA87:A12
696	20601	I:990375:16A01:E12	MA87:E12
697	20605	I:690313:16A01:G12	MA87:G12
698	20674	RG:878195:10012:A06	MA161:A06
699	20679	RG:687128:10010:D06	MA159:D06
700	20712	I:884855:17B01:D06	MA93:D06

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SEQ ID NO	Spot ID	Clone ID	MAClone ID
701	20716	I:1218621:17B01:F06	MA93:F06
702	20719	I:620371:17A01:H06	MA91:H06
703	20744	I:1681610:09B01:D06	MA137:D06
704	20909	RG:265206:10007:G06	MA156:G06
705	20911	RG:268073:10007:H06	MA156:H06
706	20939	I:2117221:16A02:F06	MA88:F06
707	20942	I:1760693:16B02:G06	MA90:G06
708	20948	I:776793:16B02:B12	MA90:B12
709	21029	RG:1405692:10013:C06	MA162:C06
710	21044	RG:1707747:10015:B12	MA164:B12
711	21046	RG:1722789:10015:C12	MA164:C12
712	21066	I:2112348:17B02:E06	MA94:E06
713	21067	I:630458:17A02:F06	MA92:F06
714	21071	I:901577:17A02:H06	MA92:H06
715	21082	I:2298081:17B02:E12	MA94:E12
716	21120	I:2718565:09B02:H12	MA138:H12
717	21122	M00056237C:E03	MA181:A01
718	21130	M00055261C:F04	MA197:E01
719	21144	M00055353D:A04	MA197:D07
720	21152	M00055357B:B10	MA197:H07
721	21189	M00056386D:H12	MA173:C01
722	21191	M00056394B:B04	MA173:D01
723	21193	M00056395A:B04	MA173:E01
724	21195	M00056396B:G05	MA173:F01
725	21198	M00056137A:A05	MA180:G01
726	21199	M00056401C:C03	MA173:H01
727	21209	M00056484A:F06	MA173:E07
728	21212	M00056193B:C11	MA180:F07
729	21213	M00056484B:B07	MA173:G07
730	21214	M00056193B:D06	MA180:G07
731	21216	M00056194B:G06	MA180:H07
732	21217	M00054633D:B07	MA187:A01
733	21219	M00054633D:E06	MA187:B01
734	21232	M00054848A:C03	MA189:H01
735	21234	M00054882C:C06	MA189:A07
736	21237	M00054678D:A03	MA187:C07
737	21239	M00054679B:B03	MA187:D07
738	21245	M00054680B:D06	MA187:G07
739	21247	M00054680C:A06	MA187:H07
740	21252	M00057176B:F11	MA193:B01
741	21254	M00057181A:D01	MA193:C01
742	21272	M00057219D:B04	MA193:D07
743	21281	M00042341A:D12	MA167:A01
744	21284	M00042433B:G09	MA171:B01
745	21288	M00042435A:F08	MA171:D01
746	21290	M00042437B:G03	MA171:E01
747	21291	M00042525D:E07	MA167:F01
748	21292	M00042438B:D01	MA171:F01
749	21293	M00042529C:G07	MA167:G01
750	21295	M00042529D:B12	MA167:H01

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
751	21297	M00042700A:E05	MA167:A07
752	21300	M00042777D:G05	MA171:B07
753	21304	M00042781C:F03	MA171:D07
754	21306	M00042783C:F10	MA171:E07
755	21307	M00042702D:B02	MA167:F07
756	21312	M00042785B:F11	MA171:H07
757	21329	M00056566C:C03	MA174:A07
758	21333	M00056567B:A09	MA174:C07
759	21341	M00056569B:D09	MA174:G07
760	21343	M00056571D:E05	MA174:H07
761	21349	RG:376801:10009:C01	MA158:C01
762	21363	RG:365436:10009:B07	MA158:B07
763	21367	RG:416839:10009:D07	MA158:D07
764	21370	RG:784224:10011:E07	MA160:E07
765	21374	RG:796852:10011:G07	MA160:G07
766	21386	M00043412A:F04	MA184:E01
767	21391	M00057273B:H10	MA182:H01
768	21396	M00054506C:B10	MA184:B07
769	21404	M00054507D:G03	MA184:F07
770	21418	M00054935B:B03	MA198:E01
771	21424	M00054935D:C11	MA198:H01
772	21432	M00054976A:E09	MA198:D07
773	21461	M00055788B:F08	MA170:C07
774	21469	M00055791A:E10	MA170:G07
775	21497	M00055224C:H11	MA196:E07
776	21539	M00055932A:C02	MA179:B01
777	21542	M00056908A:F12	MA177:C01
778	21543	M00055935D:B06	MA179:D01
779	21546	M00056908D:D08	MA177:E01
780	21547	M00055942B:F08	MA179:F01
781	21550	M00056910A:B07	MA177:G01
782	21568	M00056952B:C08	MA177:H07
783	21569	M00054728C:E03	MA188:A01
784	21571	M00054728D:E06	MA188:B01
785	21583	M00054731C:H01	MA188:H01
786	21591	M00054778B:A12	MA188:D07
787	21595	M00054778C:D08	MA188:F07
788	21599	M00054780A:G06	MA188:H07
789	21633	M00042899D:D02	MA168:A01
790	21638	M00042831B:G10	MA172:C01
791	21640	M00042833A:G07	MA172:D01
792	21641	M00042906D:F05	MA168:E01
793	21645	M00042910C:A02	MA168:G01
794	21648	M00042838C:D06	MA172:H01
795	21650	M00042867B:F03	MA172:A07
796	21651	M00055439B:G05	MA168:B07
797	21659	M00055442D:E12	MA168:F07
798	21667	M00056711D:A02	MA175:B01
799	21681	M00056771C:A12	MA175:A07
800	21685	M00056772D:G07	MA175:C07

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
801	21691	M00056782D:E04	MA175:F07
802	21693	M00056785D:G01	MA175:G07
803	21695	M00056788C:A01	MA175:H07
804	21723	RG:1663880:10014:F07	MA163:F07
805	21733	M00043310B:D08	MA183:C01
806	21734	M00054538C:G03	MA185:C01
807	21743	M00043315C:G05	MA183:H01
808	21764	M00055397B:E08	MA199:B01
809	21765	M00056624B:H11	MA186:C01
810	21786	M00055423C:C03	MA199:E07
811	21787	M00056668D:C06	MA186:F07
812	21789	M00056669B:A10	MA186:G07
813	21790	M00055424A:D01	MA199:G07
814	21791	M00056669B:E07	MA186:H07
815	21792	M00055424D:F01	MA199:H07
816	21798	M00056243A:H07	MA181:C02
817	21800	M00056243C:G10	MA181:D02
818	21803	M00055528D:H03	MA169:F02
819	21811	M00055607B:A11	MA169:B08
820	21842	M00055363C:E02	MA197:A08
821	21852	M00055373D:H02	MA197:F08
822	21856	M00055374D:E01	MA197:H08
823	21889	M00056401D:D09	MA173:A02
824	21892	M00056139D:A10	MA180:B02
825	21896	M00056140A:E11	MA180:D02
826	21898	M00056142D:A08	MA180:E02
827	21899	M00056412D:A09	MA173:F02
828	21900	M00056142D:H11	MA180:F02
829	21901	M00056414C:F03	MA173:G02
830	21908	M00056196A:H09	MA180:B08
831	21912	M00056200A:E11	MA180:D08
832	21913	M00056488C:G01	MA173:E08
833	21914	M00056200B:B01	MA180:E08
834	21916	M00056203B:G08	MA180:F08
835	21919	M00056493A:F09	MA173:H08
836	21923	M00054640D:D12	MA187:B02
837	21927	M00054643B:F04	MA187:D02
838	21929	M00054643C:D08	MA187:E02
839	21932	M00054854D:B06	MA189:F02
840	21933	M00054644B:F02	MA187:G02
841	21934	M00054857A:E08	MA189:G02
842	21939	M00054681D:G03	MA187:B08
843	21943	M00054682D:F11	MA187:D08
844	21947	M00054684B:C07	MA187:F08
845	21960	M00057191B:E11	MA193:D02
846	21966	M00057194B:G12	MA193:G02
847	21972	M00057222D:G09	MA193:B08
848	21985	M00042531B:H03	MA167:A02
849	21986	M00042440C:G04	MA171:A02
850	21989	M00042533C:D02	MA167:C02

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
851	21993	M00042536D:H05	MA167:E02
852	21994	M00042465B:E04	MA171:E02
853	21995	M00042537D:F10	MA167:F02
854	21996	M00042467B:B04	MA171:F02
855	21997	M00042538D:D12	MA167:G02
856	21998	M00042467B:B08	MA171:G02
857	22003	M00042711B:G09	MA167:B08
858	22004	M00042790B:E12	MA171:B08
859	22006	M00042791A:C10	MA171:C08
860	22007	M00042711C:H05	MA167:D08
861	22016	M00042801D:B02	MA171:H08
862	22016	M00042801D:B02	MA171:H08
863	22021	M00056532A:D09	MA174:C02
864	22025	M00056533D:H04	MA174:E02
865	22035	M00056575B:C04	MA174:B08
866	22037	M00056578C:A09	MA174:C08
867	22040	RG:1862072:20001:D08	MA139:D08
868	22044	RG:1862465:20001:F08	MA139:F08
869	22049	RG:347381:10009:A02	MA158:A02
870	22071	RG:417093:10009:D08	MA158:D08
871	22082	M00043413B:C04	MA184:A02
872	22092	M00043502D:C12	MA184:F02
873	22105	M00057341B:B11	MA182:E08
874	22110	M00054512A:F11	MA184:G08
875	22111	M00042353A:D05	MA182:H08
876	22116	M00054937B:D09	MA198:B02
877	22167	M00055797C:H09	MA170:D08
878	22169	M00055799B:C01	MA170:E08
879	22183	M00055194C:G12	MA196:D02
880	22195	M00055233B:D08	MA196:B08
881	22255	M00055966C:D06	MA179:H02
882	22263	M00056024B:B06	MA179:D08
883	22265	M00056024C:G04	MA179:E08
884	22279	M00054737D:F10	MA188:D02
885	22289	M00054780D:C09	MA188:A08
886	22295	M00054787A:E09	MA188:D08
887	22297	M00054806B:E11	MA188:E08
888	22339	M00042913B:C11	MA168:B02
889	22343	M00042915B:B10	MA168:D02
890	22345	M00054792C:E12	MA168:E02
891	22350	M00042842A:C01	MA172:G02
892	22367	M00055450A:C09	MA168:H08
893	22399	M00056804C:D01	MA175:H08
894	22423	RG:1647954:10014:D08	MA163:D08
895	22427	RG:1664311:10014:F08	MA163:F08
896	22429	RG:1671377:10014:G08	MA163:G08
897	22437	M00043316B:F10	MA183:C02
898	22440	M00054545B:A03	MA185:D02
899	22442	M00054545B:B09	MA185:E02
900	22456	M00054575A:B09	MA185:D08

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
901	22459	M00043374B:H05	MA183:F08
902	22475	M00056641A:G11	MA186:F02
903	22479	M00056642A:D08	MA186:H02
904	22480	M00055403B:B11	MA199:H02
905	22495	M00056676B:C11	MA186:H08
906	22499	M00055530D:B02	MA169:B03
907	22502	M00056253A:D06	MA181:C03
908	22504	M00056253B:B06	MA181:D03
909	22519	M00055642D:F09	MA169:D09
910	22521	M00055643A:E09	MA169:E09
911	22523	M00055643D:E02	MA169:F09
912	22548	M00055376D:D08	MA197:B09
913	22595	M00056415C:D02	MA173:B03
914	22596	M00056146D:F05	MA180:B03
915	22597	M00056417A:F02	MA173:C03
916	22598	M00056148A:B07	MA180:C03
917	22599	M00056420C:E07	MA173:D03
918	22600	M00056150A:E04	MA180:D03
919	22603	M00056421C:H11	MA173:F03
920	22604	M00056150C:A10	MA180:F03
921	22605	M00056421D:H05	MA173:G03
922	22606	M00056150C:C04	MA180:G03
923	22607	M00056422B:D11	MA173:H03
924	22608	M00056151C:A12	MA180:H03
925	22609	M00056493C:E06	MA173:A09
926	22610	M00056205D:E03	MA180:A09
927	22611	M00056495A:G10	MA173:B09
928	22618	M00056206D:B10	MA180:E09
929	22623	M00056501D:C08	MA173:H09
930	22624	M00056209D:H10	MA180:H09
931	22627	M00054645B:C12	MA187:B03
932	22629	M00054646A:B10	MA187:C03
933	22637	M00054647D:E01	MA187:G03
934	22666	M00057202C:G06	MA193:E03
935	22668	M00057202D:C11	MA193:F03
936	22693	M00042549A:G12	MA167:C03
937	22695	M00042549D:F03	MA167:D03
938	22697	M00042551B:D12	MA167:E03
939	22698	M00042513A:D03	MA171:E03
940	22700	M00042513D:A12	MA171:F03
941	22703	M00042551D:D12	MA167:H03
942	22705	M00042717B:D05	MA167:A09
943	22707	M00042719D:C09	MA167:B09
944	22710	M00042803C:F11	MA171:C09
945	22714	M00042805D:D12	MA171:E09
946	22715	M00042731A:G04	MA167:F09
947	22718	M00042806C:E09	MA171:G09
948	22720	M00042806D:F08	MA171:H09
949	22725	M00056537A:F05	MA174:C03
950	22727	M00056537D:A07	MA174:D03

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
951	22734	RG:1862584:20001:G03	MA139:G03
952	22737	M00056585D:D05	MA174:A09
953	22739	M00056586C:B08	MA174:B09
954	22745	M00056592A:B08	MA174:E09
955	22757	RG:378550:10009:C03	MA158:C03
956	22780	RG:789040:10011:F09	MA160:F09
957	22787	M00057283A:D01	MA182:B03
958	22792	M00043505A:E07	MA184:D03
959	22798	M00043506B:G10	MA184:G03
960	22800	M00043507A:B02	MA184:H03
961	22801	M00042353C:F02	MA182:A09
962	22812	M00054516B:A08	MA184:F09
963	22834	M00054986D:B04	MA198:A09
964	22836	M00054987C:B10	MA198:B09
965	22838	M00054988D:B11	MA198:C09
966	22857	M00055743C:G08	MA170:E03
967	22887	M00055196B:C09	MA196:D03
968	22899	M00055238B:G05	MA196:B09
969	22910	M00056207B:H06	MA180:G09
970	22945	M00055966C:G04	MA179:A03
971	22946	M00056920D:C08	MA177:A03
972	22949	M00055969D:D01	MA179:C03
973	22969	M00056055D:F06	MA179:E09
974	22970	M00056956B:G12	MA177:E09
975	22971	M00056060D:C04	MA179:F09
976	22973	M00056061C:H04	MA179:G09
977	22977	M00054743C:E05	MA188:A03
978	22979	M00054744C:B02	MA188:B03
979	22997	M00054808A:E02	MA188:C09
980	23005	M00054811A:G01	MA188:G09
981	23041	M00054797C:G10	MA168:A03
982	23042	M00042843B:H01	MA172:A03
983	23048	M00042844D:D10	MA172:D03
984	23050	M00042845D:A12	MA172:E03
985	23053	M00054800C:H10	MA168:G03
986	23055	M00054911D:E09	MA168:H03
987	23057	M00055450A:G03	MA168:A09
988	23063	M00055456B:H05	MA168:D09
989	23079	M00056733C:D03	MA175:D03
990	23087	M00056737D:E08	MA175:H03
991	23097	M00056809B:A12	MA175:E09
992	23101	M00056809D:C07	MA175:G09
993	23131	RG:1664308:10014:F09	MA163:F09
994	23139	M00043321A:G07	MA183:B03
995	23142	M00054549A:F03	MA185:C03
996	23159	M00043381A:C08	MA183:D09
997	23169	M00056642B:G03	MA186:A03
998	23199	M00056688C:A07	MA186:H09
999	23202	M00056257C:G03	MA181:A04
1000	23213	M00055545C:F11	MA169:G04

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
1001	23221	M00055653C:F04	MA169:C10
1002	23223	M00055653D:F01	MA169:D10
1003	23252	M00055385A:C11	MA197:B10
1004	23304	M00056157A:F11	MA180:D04
1005	23306	M00056160A:F03	MA180:E04
1006	23307	M00056426A:H07	MA173:F04
1007	23318	M00056214C:B04	MA180:C10
1008	23320	M00056216A:F10	MA180:D10
1009	23325	M00056507A:G11	MA173:G10
1010	23329	M00054648C:C10	MA187:A04
1011	23330	M00054862A:H11	MA189:A04
1012	23331	M00054648D:F12	MA187:B04
1013	23335	M00054650C:H08	MA187:D04
1014	23344	M00054868C:C11	MA189:H04
1015	23351	M00054700C:E02	MA187:D10
1016	23356	M00054902D:G11	MA189:F10
1017	23358	M00054903B:G06	MA189:G10
1018	23359	M00054706A:D05	MA187:H10
1019	23366	M00057207A:D05	MA193:C04
1020	23368	M00057207C:F06	MA193:D04
1021	23372	M00057208B:F11	MA193:F04
1022	23382	M00057242B:B10	MA193:C10
1023	23397	M00042555A:E06	MA167:C04
1024	23399	M00042561A:H03	MA167:D04
1025	23402	M00042756C:E10	MA171:E04
1026	23404	M00042758D:F01	MA171:F04
1027	23408	M00042759B:E02	MA171:H04
1028	23412	M00042808D:D03	MA171:B10
1029	23414	M00042808D:D10	MA171:C10
1030	23416	M00042811B:A05	MA171:D10
1031	23417	M00042746B:F05	MA167:E10
1032	23421	M00042746C:D01	MA167:G10
1033	23422	M00042812D:B04	MA171:G10
1034	23425	M00056546B:F12	MA174:A04
1035	23439	M00056550A:G09	MA174:H04
1036	23453	M00056610C:B08	MA174:G10
1037	23460	RG:745556:10011:B04	MA160:B04
1038	23469	RG:446537:10009:G04	MA158:G04
1039	23475	RG:375937:10009:B10	MA158:B10
1040	23476	RG:755120:10011:B10	MA160:B10
1041	23480	RG:781108:10011:D10	MA160:D10
1042	23505	M00042450C:H10	MA182:A10
1043	23507	M00042451B:B05	MA182:B10
1044	23508	M00054517D:D12	MA184:B10
1045	23544	M00055002B:G06	MA198:D10
1046	23555	M00055749A:C09	MA170:B04
1047	23559	M00055750A:F10	MA170:D04
1048	23565	M00055757A:H06	MA170:G04
1049	23591	M00055200B:F03	MA196:D04
1050	23595	M00055203B:F05	MA196:F04

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
1051	23657	M00055980B:F12	MA179:E04
1052	23667	M00056066C:H10	MA179:B10
1053	23669	M00056067B:F12	MA179:C10
1054	23671	M00056075D:H10	MA179:D10
1055	23672	M00056962D:A05	MA177:D10
1056	23673	M00056081D:B09	MA179:E10
1057	23674	M00056963A:E01	MA177:E10
1058	23675	M00056081D:C02	MA179:F10
1059	23678	M00056964D:C08	MA177:G10
1060	23679	M00056084A:B08	MA179:H10
1061	23683	M00054750C:G08	MA188:B04
1062	23685	M00054750D:F04	MA188:C04
1063	23693	M00054757A:F05	MA188:G04
1064	23695	M00054760D:B10	MA188:H04
1065	23746	M00042847A:A04	MA172:A04
1066	23748	M00042847A:D10	MA172:B04
1067	23755	M00054917B:G02	MA168:F04
1068	23765	M00055468D:D05	MA168:C10
1069	23767	M00055469B:E11	MA168:D10
1070	23773	M00055492C:C01	MA168:G10
1071	23775	M00055496A:E06	MA168:H10
1072	23787	M00056742D:D01	MA175:F04
1073	23805	M00056814D:C08	MA175:G10
1074	23827	RG:1636303:10014:B10	MA163:B10
1075	23829	RG:1643142:10014:C10	MA163:C10
1076	23831	RG:1650444:10014:D10	MA163:D10
1077	23840	RG:1418984:10003:H10	MA152:H10
1078	23841	M00043339C:C12	MA183:A04
1079	23843	M00043342C:H03	MA183:B04
1080	23847	M00043350A:C04	MA183:D04
1081	23875	M00056646D:G05	MA186:B04
1082	23880	M00055406C:H08	MA199:D04
1083	23887	M00056653C:F06	MA186:H04
1084	23888	M00055408A:H06	MA199:H04
1085	23905	M00055545D:E02	MA169:A05
1086	23909	M00055548B:H07	MA169:C05
1087	23912	M00056271C:F02	MA181:D05
1088	23915	M00055550D:A05	MA169:F05
1089	23929	M00055661A:F09	MA169:E11
1090	24003	M00056427D:A09	MA173:B05
1091	24004	M00056163C:H09	MA180:B05
1092	24005	M00056428B:F07	MA173:C05
1093	24006	M00056163D:E01	MA180:C05
1094	24009	M00056428C:A12	MA173:E05
1095	24011	M00056429D:D07	MA173:F05
1096	24014	M00056175D:B05	MA180:G05
1097	24017	M00056507D:D04	MA173:A11
1098	24027	M00056511D:H07	MA173:F11
1099	24033	M00054654A:F12	MA187:A05
1100	24034	M00054868D:F12	MA189:A05

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
1101	24039	M00054661B:H10	MA187:D05
1102	24043	M00054666B:C07	MA187:F05
1103	24044	M00054870B:H05	MA189:F05
1104	24045	M00054669B:B03	MA187:G05
1105	24049	M00054706B:G04	MA187:A11
1106	24055	M00054720C:F01	MA187:D11
1107	24057	M00054722B:E08	MA187:E11
1108	24058	M00054908A:H08	MA189:E11
1109	24061	M00054723B:H12	MA187:G11
1110	24070	M00057210B:G10	MA193:C05
1111	24084	M00057248D:B05	MA193:B11
1112	24092	M00057252A:F06	MA193:F11
1113	24099	M00042573B:A02	MA167:B05
1114	24108	M00042766A:E10	MA171:F05
1115	24113	M00042882D:G08	MA167:A11
1116	24115	M00042885C:A12	MA167:B11
1117	24116	M00042815A:E07	MA171:B11
1118	24118	M00042817B:E11	MA171:C11
1119	24121	M00042887C:A07	MA167:E11
1120	24126	M00042818D:A08	MA171:G11
1121	24133	M00056552A:G08	MA174:C05
1122	24135	M00056552C:D08	MA174:D05
1123	24137	M00056553C:E10	MA174:E05
1124	24143	M00056555B:C11	MA174:H05
1125	24151	M00056611C:D03	MA174:D11
1126	24155	M00056611D:B03	MA174:F11
1127	24157	M00056611D:F08	MA174:G11
1128	24159	M00056614C:F06	MA174:H11
1129	24161	RG:358387:10009:A05	MA158:A05
1130	24193	M00057302A:F08	MA182:A05
1131	24197	M00057302C:H09	MA182:C05
1132	24204	M00054496A:B09	MA184:F05
1133	24208	M00054496A:H05	MA184:H05
1134	24209	M00042460B:A08	MA182:A11
1135	24210	M00054524B:B09	MA184:A11
1136	24212	M00054526C:E05	MA184:B11
1137	24213	M00042516B:A08	MA182:C11
1138	24215	M00042517D:H10	MA182:D11
1139	24216	M00054527B:H11	MA184:D11
1140	24217	M00042517D:H11	MA182:E11
1141	24222	M00054529C:G04	MA184:G11
1142	24223	M00043300D:A06	MA182:H11
1143	24230	M00054958A:G10	MA198:C05
1144	24232	M00054958B:B07	MA198:D05
1145	24240	M00054961D:E08	MA198:H05
1146	24246	M00055015C:H02	MA198:C11
1147	24250	M00055016B:D03	MA198:E11
1148	24265	M00055764D:D05	MA170:E05
1149	24275	M00055815C:E08	MA170:B11
1150	24283	M00055819B:B12	MA170:F11

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
1151	24287	M00055820C:H11	MA170:H11
1152	24289	M00055204B:C04	MA196:A05
1153	24295	M00055209A:C09	MA196:D05
1154	24311	M00055252C:G12	MA196:D11
1155	24354	M00056934C:D08	MA177:A05
1156	24355	M00055989C:D03	MA179:B05
1157	24360	M00056937C:G12	MA177:D05
1158	24367	M00055997B:A02	MA179:H05
1159	24373	M00056087A:G01	MA179:C11
1160	24375	M00056091A:H05	MA179:D11
1161	24378	M00056966B:A05	MA177:E11
1162	24379	M00056093A:F08	MA179:F11
1163	24383	M00056096C:H10	MA179:H11
1164	24399	M00054766B:E10	MA188:H05
1165	24403	M00054817B:H09	MA188:B11
1166	24407	M00054818D:G04	MA188:D11
1167	24450	M00042851D:H04	MA172:A05
1168	24452	M00042853A:F01	MA172:B05
1169	24457	M00055426A:G06	MA168:E05
1170	24467	M00055496A:G12	MA168:B11
1171	24475	M00055509C:C02	MA168:F11
1172	24477	M00055510B:F08	MA168:G11
1173	24479	M00055510D:A08	MA168:H11
1174	24483	M00056748C:B08	MA175:B05
1175	24485	M00056749A:F01	MA175:C05
1176	24493	M00056754B:A10	MA175:G05
1177	24495	M00056754B:H06	MA175:H05
1178	24521	RG:1653390:10014:E05	MA163:E05
1179	24525	RG:1669553:10014:G05	MA163:G05
1180	24547	M00043355A:H12	MA183:B05
1181	24549	M00043355B:F10	MA183:C05
1182	24557	M00043357B:B10	MA183:G05
1183	24558	M00054557C:D09	MA185:G05
1184	24559	M00043358B:G11	MA183:H05
1185	24561	M00043396D:B04	MA183:A11
1186	24576	M00054612D:D11	MA185:H11
1187	24578	M00055409B:D08	MA199:A05
1188	24580	M00055409D:F06	MA199:B05
1189	24582	M00055410A:A06	MA199:C05
1190	24587	M00056659A:D08	MA186:F05
1191	24599	M00056704C:H08	MA186:D11
1192	24609	M00055553C:B06	MA169:A06
1193	24610	M00056280B:D10	MA181:A06
1194	24614	M00056282D:G10	MA181:C06
1195	24622	M00056288B:A12	MA181:G06
1196	24627	M00055686D:E11	MA169:B12
1197	24630	M00042346B:F09	MA181:C12
1198	24633	M00055698C:E05	MA169:E12
1199	24634	M00042347C:D07	MA181:E12
1200	24635	M00055702C:C04	MA169:F12

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
1201	24638	M00042348C:F03	MA181:G12
1202	24648	M00055335D:E01	MA197:D06
1203	24708	M00056180C:E06	MA180:B06
1204	24712	M00056184B:G11	MA180:D06
1205	24721	M00056514A:F06	MA173:A12
1206	24727	M00056514C:H11	MA173:D12
1207	24741	M00054674D:C05	MA187:C06
1208	24743	M00054675A:H07	MA187:D06
1209	24744	M00054878A:G12	MA189:D06
1210	24751	M00054676B:D07	MA187:H06
1211	24755	M00054725A:E09	MA187:B12
1212	24758	M00054924C:B09	MA189:C12
1213	24759	M00054726D:B04	MA187:D12
1214	24762	M00054927A:H09	MA189:E12
1215	24763	M00054727C:F11	MA187:F12
1216	24767	M00054728A:H05	MA187:H12
1217	24768	M00054930B:G05	MA189:H12
1218	24772	M00057214C:G11	MA193:B06
1219	24776	M00057216C:G01	MA193:D06
1220	24780	M00057217C:B07	MA193:F06
1221	24803	M00042695A:H04	MA167:B06
1222	24805	M00042695D:D09	MA167:C06
1223	24808	M00042771A:D01	MA171:D06
1224	24810	M00042772D:F02	MA171:E06
1225	24812	M00042773A:A12	MA171:F06
1226	24813	M00042699B:B10	MA167:G06
1227	24817	M00042889A:H07	MA167:A12
1228	24818	M00042819A:C09	MA171:A12
1229	24820	M00042819C:B03	MA171:B12
1230	24821	M00042895B:C02	MA167:C12
1231	24822	M00042823B:A02	MA171:C12
1232	24825	M00042895D:B04	MA167:E12
1233	24843	M00056564B:F11	MA174:F06
1234	24845	M00056564C:E08	MA174:G06
1235	24849	M00056615D:A01	MA174:A12
1236	24861	M00056620D:F02	MA174:G12
1237	24865	RG:359184:10009:A06	MA158:A06
1238	24887	RG:428530:10009:D12	MA158:D12
1239	24897	M00057310A:A07	MA182:A06
1240	24908	M00054503C:H10	MA184:F06
1241	24917	M00043302C:D03	MA182:C12
1242	24924	M00054535B:F10	MA184:F12
1243	24926	M00054535C:D10	MA184:G12
1244	24928	M00054535C:H09	MA184:H12
1245	24934	M00054964B:A08	MA198:C06
1246	24936	M00054966C:H01	MA198:D06
1247	24952	M00055022D:F01	MA198:D12
1248	24958	M00055026C:C12	MA198:G12
1249	24960	M00055027B:C11	MA198:H12
1250	24985	M00055826D:C11	MA170:E12

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
1251	24989	M00055828C:D10	MA170:G12
1252	24991	M00055828D:F12	MA170:H12
1253	24995	M00055215C:E11	MA196:B06
1254	24999	M00055217C:E09	MA196:D06
1255	25001	M00055221B:C01	MA196:E06
1256	25005	M00055222A:E02	MA196:G06
1257	25012	M00056226D:F03	MA180:B12
1258	25019	M00055258A:G02	MA196:F12
1259	25057	M00055998A:A02	MA179:A06
1260	25058	M00056945A:B11	MA177:A06
1261	25062	M00056945D:H03	MA177:C06
1262	25063	M00056001A:F11	MA179:D06
1263	25068	M00056946D:B04	MA177:F06
1264	25073	M00056101B:B02	MA179:A12
1265	25081	M00056110C:D09	MA179:E12
1266	25083	M00056111B:H03	MA179:F12
1267	25101	M00054772B:H06	MA188:G06
1268	25109	M00054825B:B05	MA188:C12
1269	25111	M00054831A:G04	MA188:D12
1270	25115	M00054831D:B07	MA188:F12
1271	25156	M00042862D:A12	MA172:B06
1272	25162	M00042864A:E05	MA172:E06
1273	25164	M00042864D:E06	MA172:F06
1274	25177	M00055514B:A05	MA168:E12
1275	25191	M00056763B:A12	MA175:D06
1276	25195	M00056767D:F06	MA175:F06
1277	25201	M00056821A:D08	MA175:A12
1278	25205	M00056822C:G03	MA175:C12
1279	25209	M00056823D:H02	MA175:E12
1280	25217	RG:1609994:10014:A06	MA163:A06
1281	25243	RG:1667183:10014:F12	MA163:F12
1282	25249	M00043358D:C06	MA183:A06
1283	25250	M00054558B:E05	MA185:A06
1284	25257	M00043361B:G03	MA183:E06
1285	25277	M00043408C:D11	MA183:G12
1286	25280	M00054632A:E11	MA185:H12
1287	25281	M00056661A:G05	MA186:A06
1288	25283	M00056661C:C11	MA186:B06
1289	25284	M00055412D:E05	MA199:B06
1290	25286	M00055413A:G12	MA199:C06
1291	25288	M00055414D:A09	MA199:D06
1292	25301	M00056707B:C01	MA186:C12
1293	25317	M00056237D:C10	MA181:D01
1294	25319	M00056238B:D03	MA181:E01
1295	25323	M00056239B:D05	MA181:G01
1296	25325	M00056241B:H07	MA181:H01
1297	25380	I:2921194:04B02:C06	MA118:C06
1298	25388	I:1624865:04B02:G06	MA118:G06
1299	25389	I:1728607:04A02:H06	MA116:H06
1300	25390	I:2827453:04B02:H06	MA118:H06

Table 2

SEQ ID NO	Spot ID	Clone ID	MAClone ID
1301	25398	1:2070593:04B02:D12	MA118:D12
1302	25405	1:2683114:04A02:H12	MA116:H12
1303	25419	1:1809336:02A02:G06	MA108:G06

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1	M00026919B:A10	MA40:F01		Z69708	gi 1204106 cemb Z69708.1HSL241B9C Human DNA sequence from cosmid L241B9, Huntington's Disease Region, chromosome 4p16.3 contains pol	2.2E-208
2	M00026919B:E07	MA40:G01		Y16675	gi 3378616 cemb Y16675.1HSCPRM1 Homo sapiens mRNA for aflatoxin B1-aldehyde reductase	0
3	M00026919D:F04	MA40:H01		M62810	gi 188563 gb M62810.1HUMMITF1 Human mitochondrial transcription factor 1 mRNA, complete cds	1E-300
4	M00026914D:G06	MA40:A01		NM_020990	gi 11641403 ref NM_020990.2 Homo sapiens creatine kinase, mitochondrial 1 (ubiquitous) (CKMT1), nuclear gene encoding mitochondrial	2.3E-288
5	M00026950A:A09	MA40:D07		BC010020	gi 14603100 gb BC010020.1BC010020 Homo sapiens, adaptor-related protein complex 3, sigma 2 subunit, clone MGC:19643 IMAGE:2959670,	9.3E-207
6	M00003820C:A09	MA244:B01	0.83544	AK026527	gi 10439404 dbj AK026527.1AK026527 Homo sapiens cDNA: FLJ22874 fis, clone KAT02871	6.6E-24
7	M00001673A:G03	MA244:E01		BC018192	gi 17390428 gb BC018192.1BC018192 Homo sapiens, inositol 1,3,4-triphosphate 5/6 kinase, clone MGC:21491 IMAGE:3867269, mRNA, comple	4.6E-274
8	M00007939A:A12	MA27:B07				
9	M00007939A:B11	MA27:D07		AK055664	gi 16550447 dbj AK055664.1AK055664 Homo sapiens cDNA FLJ31102 fis, clone IMR322000010	6.7E-186
10	M00007939B:G03	MA27:H07		BC006230	gi 13623260 gb BC006230.1BC006230 Homo sapiens, lysophospholipase-like, clone MGC:10338 IMAGE:3945191, mRNA, complete cds	2.3E-151
11	M00007997D:G08	MA29:C01		BC012323	gi 15147375 gb BC012323.1BC012323 Homo sapiens, Similar to cut (Drosophila)-like 1 (CCAAT displacement protein), clone IMAGE:455060	2.1E-198
12	M00026894C:E11	MA39:F07		AF052955	gi 8117711 gb AF052955.1AF052955 Homo sapiens F1-ATPase epsilon-subunit (ATP5E) mRNA, complete cds; nuclear gene for mitochondrial	9E-204
13	M00001391A:C05	MA15:G01		AK000140	gi 7020034 dbj AK000140.1AK000140 Homo sapiens cDNA FLJ20133 fis, clone COL06539	2.2E-107

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
14	M00006818A:A06	MA240:C01	0.06554	AL136706	gi 12052931 emb AL136706.1HSM801674 Homo sapiens mRNA; cDNA DKFZp566B2024 (from clone DKFZp566B2024); complete cds	9.2E-248
15	M00023278A:F09	MA36:E01				
16	M00023299A:G01	MA36:C07				
17	M00023301A:A11	MA36:F07		BC007270	gi 13938284 gb BC007270.1BC007270 Homo sapiens, clone MGC:15585 IMAGE:3160319, mRNA, complete cds	1E-300
18	M00008050A:D12	MA30:C01		BC015839	gi 16198382 gb BC015839.1BC015839 Homo sapiens, clone IMAGE:4296901, mRNA	1.6E-267
19	M00022135A:C04	MA35:F01		BC007925	gi 14043985 gb BC007925.1BC007925 Homo sapiens, retinoid X receptor, alpha, clone MGC:14451 IMAGE:4304205, mRNA, complete cds	1.3E-124
20	M00022137A:A05	MA35:G01		AK025549	gi 10438098 dbj AK025549.1AK025549 Homo sapiens cDNA: FLJ21896 fis, clone HEP03441	1.6E-267
21	M00022176C:A07	MA35:A07		BC000393	gi 12653248 gb BC000393.1BC000393 Homo sapiens, Similar to CAAX box 1, clone MGC:8471 IMAGE:2821721, mRNA, complete cds	2.4E-183
22	M00008077B:A08	MA30:D07		U09564	gi 507212 gb U09564.1HSU09564 Human serine kinase mRNA, complete cds	6.3E-211
23	M00008077C:D09	MA30:G07		U50939	gi 1314559 gb U50939.1HSU50939 Human amyloid precursor protein-binding protein 1 mRNA, complete cds	1.4E-258
24	M00022081C:E09	MA34:F01		AJ271408	gi 6729589 emb AJ271408.1HSA271408 Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)	1E-237
25	M00001662A:G06	MA24:H01		BC006229	gi 13623258 gb BC006229.1BC006229 Homo sapiens, cytochrome c oxidase subunit Vb, clone MGC:10622 IMAGE:3952882, mRNA, complete cds	1.6E-264
26	M00022102B:B11	MA34:D07		AJ250229	gi 8926686 emb AJ250229.1HSA250229 Homo sapiens mRNA for chromosome 11 hypothetical protein (ORF1)	0
27	M00022102B:E08	MA34:E07				
28	M00022569D:G06	MA22:F01	0.0572	U08839	gi 517197 gb U08839.1HSU08839 Human urokinase-type plasminogen activator receptor mRNA, complete cds	6.7E-233

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
29	M00001358B:B11	MA14:A01		AB047848	gi 11094286 dbj AB047848.1AB047848 Homo sapiens mRNA for zeta1-COP, complete cds	4.3E-299
30	M00001429A:G04	MA16:A01		BC000491	gi 12653440 gb BC000491.1BC000491 Homo sapiens, proliferating cell nuclear antigen, clone MGC:8367 IMAGE:2820036, mRNA, complete cd	0
31	M00001358B:F05	MA14:B01		BC000706	gi 12653834 gb BC000706.1BC000706 Homo sapiens, Similar to G8 protein, clone MGC:1225 IMAGE:3349773, mRNA, complete cds	1.1E-299
32	M00001429C:C03	MA16:C01		X16064	gi 37495 emb X16064.1HSTUMP Human mRNA for translationally controlled tumor protein	0
33	M00001359D:B04	MA14:E01		AK000481	gi 7020597 dbj AK000481.1AK000481 Homo sapiens cDNA FLJ20474 fis, clone KAT07183	1E-300
34	M00001360A:E10	MA14:F01		BC002899	gi 12804092 gb BC002899.1BC002899 Homo sapiens, protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1, clone MGC:10717 I	6.4E-267
35	M00001360C:B05	MA14:G01		NM_001014	gi 13904867 ref NM_001014.2 Homo sapiens ribosomal protein S10 (RPS10), mRNA	2.1E-282
36	M00001430B:F01	MA16:G01		AL050096	gi 4884121 emb AL050096.1HSM800178 Homo sapiens mRNA; cDNA DKFZp586A0419 (from clone DKFZp586A0419); partial cds	6.9E-47
37	M00001430C:A02	MA16:H01		AF083248	gi 5106790 gb AF083248.1AF083248 Homo sapiens ribosomal protein L26 homolog mRNA, complete cds	0
38	M00001445C:H05	MA16:A07		X02152	gi 34312 emb X02152.1HSLDHAR Human mRNA for lactate dehydrogenase-A (LDH-A, EC 1.1.1.27)	0
39	M00001445D:D07	MA16:B07		X73458	gi 312997 emb X73458.1HSPLK1 H.sapiens plk-1 mRNA	2.7E-266
40	M00001374D:D10	MA14:G07		BC018620	gi 17391359 gb BC018620.1BC018620 Homo sapiens, Similar to ADP-ribosyltransferase (NAD ⁺ ; poly (ADP-ribose) polymerase), clone IMAGE	8.3E-254
41	M00001375A:A08	MA14:H07		AF231705	gi 8745393 gb AF231705.1AF231705 Homo sapiens Alu co-repressor 1 (ACR1) mRNA, complete cds	4.1E-137

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
42	M00006600A:E07	MA241:B01		AK001635	gi 7023008 dbj AK001635.1AK001635 Homo sapiens cDNA FLJ10773 fis, clone NT2RP4000246, moderately similar to NPC DERIVED PROLINE RIC	3.2E-281
43	M00006690A:F06	MA241:C07	0.28152			
44	M00023325D:A08	MA37:B02		BC001901	gi 12804898 gb BC001901.1BC001901 Homo sapiens, BCL2-antagonist of cell death, clone MGC:2100 IMAGE:3537914, mRNA, complete cds	2.7E-294
45	M00026921D:F12	MA40:C02		AK054686	gi 16549280 dbj AK054686.1AK054686 Homo sapiens cDNA FLJ30124 fis, clone BRACE1000093, highly similar to TNF RECEPTOR ASSOCIATED FA	0
46	M00023325D:F06	MA37:D02	0.15781	BC017660	gi 17389200 gb BC017660.1BC017660 Homo sapiens, clone MGC:14608 IMAGE:4049404, mRNA, complete cds	1.2E-188
47	M00026924A:E09	MA40:G02		AL359938	gi 8977893 emb AL359938.1HSM802719 Homo sapiens mRNA; cDNA DKFZp547H236 (from clone DKFZp547H236)	0
48	M00007940C:A04	MA27:D08		AF381986	gi 17985445 gb AF381986.1AF381986 Homo sapiens haplotype X mitochondrion, complete genome	1.6E-264
49	M00007941C:H03	MA27:F08		U97519	gi 2213812 gb U97519.1HSU97519 Homo sapiens podocalyxin-like protein mRNA, complete cds	4.5E-271
50	M00021638B:F03	MA31:F08		NM_004417	gi 7108342 ref NM_004417.2 Homo sapiens dual specificity phosphatase 1 (DUSP1), mRNA	3.2E-250
51	M00007941D:C04	MA27:H08		AL110202	gi 5817121 emb AL110202.1HSM800854 Homo sapiens mRNA; cDNA DKFZp58612022 (from clone DKFZp58612022)	2.5E-263
52	M00004054D:D02		0.19296			
53	M00001507A:A10	MA23:E08		AF220656	gi 7107358 gb AF220656.1AF220656 Homo sapiens apoptosis-associated nuclear protein PHLDA1 (PHLDA1) mRNA, partial cds	1.4E-255
54	M00004198D:A01			AY007138	gi 9956042 gb AY007138.1 Homo sapiens clone CDABP0061 mRNA sequence	0
55	M00001528C:B08	MA23:G08		AF106066	gi 5353548 gb AF106066.1AF106066 Homo sapiens RAD17 pseudogene, complete sequence	4.1E-28

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
56	M00008002C:A05	MA29:B03		AB023173	gi 4589555 dbj AB023173.1AB023173 Homo sapiens mRNA for KIAA0956 protein, partial cds	1.6E-292
57	M00008006C:H05	MA29:H03		AF327923	gi 13241760 gb AF327923.1AF327923 Homo sapiens transmembrane protein induced by tumor necrosis factor alpha (TMPIT) mRNA, complete	8.2E-205
58	M00026850C:A01	MA39:A02		AK055812	gi 16550635 dbj AK055812.1AK055812 2 Homo sapiens cDNA FLJ31250 fis, clone KIDNE2005336, weakly similar to Homo sapiens antigen NY-CO	8.5E-66
59	M00026853D:C07	MA39:F02	0.27143	AF212248	gi 13182770 gb AF212248.1AF212248 Homo sapiens CDA09 mRNA, complete cds	1.9E-153
60	M00026896A:C09	MA39:D08		AK018953	gi 12858931 dbj AK018953.1AK018953 3 Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:1700111D04, full	3.9E-139
61	M00001391B:D02	MA15:C02		D86956	gi 1503985 dbj D86956.1D86956 Human mRNA for KIAA0201 gene, complete cds	4.7E-221
62	M00001391B:H05	MA15:E02		AL110153	gi 5817055 emb AL110153.1HSM8007 98 Homo sapiens mRNA; cDNA DKFZp586E0524 (from clone DKFZp586E0524)	1E-300
63	M00001391D:C07	MA15:F02		AL136593	gi 7018431 emb AL136593.1HSM8015 67 Homo sapiens mRNA; cDNA DKFZp761K102 (from clone DKFZp761K102); complete cds	0
64	M00001392B:B01	MA15:G02		M73791	gi 189265 gb M73791.1HUMNOVGE NE Human novel gene mRNA, complete cds	3.5E-94
65	M00001407B:C03	MA15:E08		BC005116	gi 13477284 gb BC005116.1BC005116 Homo sapiens, structure specific recognition protein 1, clone MGC:1608 IMAGE:3536048, mRNA, compl	1E-300
66	M00005635B:E02	MA242:B08	0.86798			
67	M00005636B:B06	MA242:E08		AK008041	gi 12841981 dbj AK008041.1AK008041 1 Mus musculus adult male small intestine cDNA, RIKEN full-length enriched library, clone:2010002G	1.5E-24
68	M00006971A:E06	MA240:E08		NM_002403	gi 9665260 ref NM_002403.2 Homo sapiens microfibrillar-associated protein 2 (MFAP2), transcript variant 2, mRNA	4.7E-274
69	M00005636D:B08	MA242:F08				

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
70	M00023302C:A04	MA36:B08		AF202922	gi 13540826 gb AF202922.2AF202922 Homo sapiens LRP16 (LRP16) mRNA, complete cds	4.6E-231
71	M00023305A:C02	MA36:G08				
72	M00022180A:E08	MA35:B08		BC018918	gi 17511926 gb BC018918.1BC018918 Homo sapiens, clone MGC:12603 IMAGE:4130906, mRNA, complete cds	3.6E-203
73	M00022181C:H11	MA35:E08		AK001485	gi 7022770 dbj AK001485.1AK001485 Homo sapiens cDNA FLJ10623 fis, clone NT2RP2005520, highly similar to Homo sapiens chromosome-ass	1.6E-161
74	M00001673A:C11			U15128	gi 902744 gb U15128.1HSU15128 Human beta-1,2-N-acetylglucosaminyltransferase II (MGAT2) gene, complete cds	0
75	M00003853B:C07			BC008378	gi 14249982 gb BC008378.1BC008378 Homo sapiens, programmed cell death 2, clone MGC:12347 IMAGE:4102043, mRNA, complete cds	2.4E-207
76	M00022106B:D04	MA34:B08		AB055387	gi 12862374 dbj AB055387.1AB055387 Homo sapiens mitochondrial DNA	1.4E-86
77	M00003858B:G01	MA24:E08	0.26044			
78	M00022109B:A11	MA34:G08		AK023237	gi 10435081 dbj AK023237.1AK023237 Homo sapiens cDNA FLJ13175 fis, clone NT2RP3003842	0
79	M00022921A:H05	MA22:F02	0.11424	BC002976	gi 12804234 gb BC002976.1BC002976 Homo sapiens, Similar to cytochrome b-561, clone MGC:2190 IMAGE:3535771, mRNA, complete cds	0
80	M00001430D:H07	MA16:A02		X58965	gi 35069 emb X58965.1HSNM23H2G H.sapiens RNA for nm23-H2 gene	1.9E-276
81	M00001360D:H10	MA14:B02		NM_002415	gi 4505184 ref NM_002415.1 Homo sapiens macrophage migration inhibitory factor (glycosylation-inhibiting factor) (MIF), mRNA	6.2E-158
82	M00001431A:E01	MA16:B02		AK026534	gi 10439413 dbj AK026534.1AK026534 Homo sapiens cDNA: FLJ22881 fis, clone KAT03571, highly similar to HUMFERL Human ferritin L chain	1E-300
83	M00001361A:A02	MA14:C02		NM_004053	gi 15208644 ref NM_004053.2 Homo sapiens bystin-like (BYSL), mRNA	6.7E-270
84	M00001362A:B03	MA14:H02		L47277	gi 986911 gb L47277.1HUMTOPATR A Homo sapiens (cell line HepG2, HeLa) alpha topoisomerase truncated-form mRNA, 3'UTR	1E-296

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
85	M00001376C:C01	MA14:A08		S73591	gi 688296 gb S73591.1S73591 Homo sapiens brain-expressed HHCPA78 homolog VDUP1 (Gene) mRNA, complete cds	5.8E-233
86	M00001449A:D02	MA16:B08		BC013954	gi 15530314 gb BC013954.1BC013954 Homo sapiens, clone IMAGE:3505920, mRNA	9.6E-291
87	M00001378B:A02	MA14:C08		BC002343	gi 12803082 gb BC002343.1BC002343 Homo sapiens, Similar to nucleolin, clone MGC:8580 IMAGE:2960982, mRNA, complete cds	5.2E-124
88	M00001450A:D12	MA16:C08		AF106622	gi 4378528 gb AF106622.1AF106622 Homo sapiens mitochondrial inner membrane preprotein translocase Tim17a mRNA, nuclear gene encoding	5E-280
89	M00001378C:D08	MA14:D08	0.06114	BC002569	gi 12803486 gb BC002569.1BC002569 Homo sapiens, ribosomal protein S4, X-linked, clone MGC:2328 IMAGE:3139352, mRNA, complete cds	3E-235
90	M00001451D:F01	MA16:G08		BC001432	gi 12655154 gb BC001432.1BC001432 Homo sapiens, heterogeneous nuclear ribonucleoprotein F, clone MGC:2197 IMAGE:3138435, mRNA, comp	0
91	M00006628B:A02	MA241:C02		NM_005826	gi 14141188 ref NM_005826.2 Homo sapiens heterogeneous nuclear ribonucleoprotein R (HNRPR), mRNA	4.9E-80
92	M00026926C:F03	MA40:B03		AK027855	gi 14042836 dbj AK027855.1AK027855 5 Homo sapiens cDNA FLJ14949 fis, clone PLACE2000341, highly similar to Homo sapiens sodium-depend	1.1E-215
93	M00026963B:H03	MA40:A09		BC014557	gi 17939595 gb BC014557.1BC014557 Homo sapiens, clone IMAGE:3837222, mRNA	2.6E-241
94	M00026964A:E10	MA40:D09		NM_013375	gi 17572813 ref NM_013375.2 Homo sapiens TATA-binding protein-binding protein (ABT1), mRNA	1.5E-171
95	M00026965C:A11	MA40:F09	0.07092	AK054883	gi 16549505 dbj AK054883.1AK054883 3 Homo sapiens cDNA FLJ30321 fis, clone BRACE2006281	1E-176
96	M00001398A:D11	MA244:C09		BC009503	gi 14550505 gb BC009503.1BC009503 Homo sapiens, G1 to S phase transition 1, clone MGC:1735 IMAGE:2822947, mRNA, complete cds	1E-300

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
97	M00008095C:H08	MA31:D03		BC000820	gi 12654032 gb BC000820.1BC000820 Homo sapiens, menage a trois 1 (CAK assembly factor), clone MGC:5154 IMAGE:3453943, mRNA, complet	5.3E-255
98	M00007942A:F12	MA27:B09		NM_001102	gi 12025669 ref NM_001102.2 Homo sapiens actinin, alpha 1 (ACTN1), mRNA	2.3E-257
99	M00004212B:B12	MA25:A09	0.11538	D38112	gi 644480 dbj D38112.1HUMMTA Homo sapiens mitochondrial DNA, complete sequence	2.4E-48
100	M00008014C:E11	MA29:D05	0.05435	AL080111	gi 5262538 emb AL080111.1HSM8006 19 Homo sapiens mRNA; cDNA DKFZp586G2222 (from clone DKFZp586G2222)	1.7E-292
101	M00008015A:B05	MA29:E05		M23161	gi 339899 gb M23161.1HUMTRANSC Human transposon-like element mRNA	1.3E-157
102	M00022049A:B08	MA33:A05		AK001731	gi 7023175 dbj AK001731.1AK001731 Homo sapiens cDNA FLJ10869 fis, clone NT2RP4001677	5.8E-286
103	M00026856B:F08	MA39:A03		AK023351	gi 10435249 dbj AK023351.1AK023351 Homo sapiens cDNA FLJ13289 fis, clone OVARC1001170	1.7E-298
104	M00026856C:H12	MA39:B03	0.55489			
105	M00026900D:A03	MA39:F09		NM_000995	gi 16117786 ref NM_000995.2 Homo sapiens ribosomal protein L34 (RPL34), transcript variant 1, mRNA	3.5E-200
106	M00026900D:C12	MA39:G09		BC014377	gi 15680094 gb BC014377.1BC014377 Homo sapiens, clone IMAGE:4041545, mRNA, partial cds	1.2E-274
107	M00026901D:A03	MA39:H09		AK057845	gi 16553806 dbj AK057845.1AK057845 5 Homo sapiens cDNA FLJ25116 fis, clone CBR05731, highly similar to EPHRIN-A1 PRECURSOR	3.6E-178
108	M00001393A:G03	MA15:E03		NM_001015	gi 14277698 ref NM_001015.2 Homo sapiens ribosomal protein S11 (RPS11), mRNA	0
109	M00001409B:D03	MA15:D09		AF104914	gi 4206125 gb AF104914.1AF104914 Homo sapiens map 3p22; 9.65 cR from CHLC.GATA87B02 repeat region, complete sequence	0
110	M00001409B:G01	MA15:E09		Z69043	gi 2398656 emb Z69043.1HSTRAPRN A H.sapiens mRNA translocon-associated protein delta subunit precursor	3.1E-278

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
111	M00001410C:C09	MA15:F09		BC007261	gi 13938270 gb BC007261.1BC007261 Homo sapiens, clone MGC:15545 IMAGE:3050745, mRNA, complete cds	5.3E-252
112	M00001410D:A03	MA15:G09		X52003	gi 311379 emb X52003.1HSPS2MKN H.sapiens pS2 protein gene	3.9E-265
113	M00005504D:F06	MA242:A03	0.33179	AK026112	gi 10438858 dbj AK026112.1AK026112 Homo sapiens cDNA: FLJ22459 fis, clone HRC10045	5E-144
114	M00005510D:H10	MA242:G03				
115	M00006990D:D06	MA240:G09		M79321	gi 187270 gb M79321.1HUMLYNTK Human Lyn B protein mRNA, complete cds	3.8E-290
116	SL146	MA248:A03	0.09302	AF415176	gi 16589066 gb AF415176.1AF415176 Homo sapiens CSGEF (SGEF) mRNA, complete cds, alternatively spliced	7.8E-92
117	SL153	MA248:H03				
118	SL198	MA248:E09	0.45185	BC008180	gi 14198240 gb BC008180.1BC008180 Homo sapiens, DKFZP586A0522 protein, clone MGC:5320 IMAGE:2900478, mRNA, complete cds	8.2E-115
119	SL199	MA248:F09		AF415176	gi 16589066 gb AF415176.1AF415176 Homo sapiens CSGEF (SGEF) mRNA, complete cds, alternatively spliced	6.2E-92
120	SL200	MA248:G09		BC005307	gi 13529043 gb BC005307.1BC005307 Homo sapiens, kallikrein 3, (prostate specific antigen), clone MGC:12378 IMAGE:3950475, mRNA, com	3.1E-191
121	M00023283D:C03	MA36:C03		AF070673	gi 3978241 gb AF070673.1AF070673 Homo sapiens stannin mRNA, complete cds	3.7E-181
122	M00023283D:D03	MA36:D03		Z69881	gi 1524091 emb Z69881.1HSSERCA3 M H.sapiens mRNA for adenosine triphosphatase, calcium	1.1E-299
123	M00023284A:D09	MA36:E03		AK024338	gi 10436699 dbj AK024338.1AK024338 Homo sapiens cDNA FLJ14276 fis, clone PLACE1005128	1E-300
124	M00023285D:C05	MA36:H03		U34877	gi 1143231 gb U34877.1HSU34877 Homo sapiens biliverdin-IX alpha reductase mRNA, complete cds	6.5E-295
125	M00023306C:H11	MA36:A09		BC003366	gi 13097197 gb BC003366.1BC003366 Homo sapiens, calcium-regulated heat-stable protein (24kD), clone MGC:5235 IMAGE:2900952, mRNA, c	0

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
126	M00023308D:B06	MA36:C09		M57730	gi 179320 gb M57730.1HUMB61 Human B61 mRNA, complete cds	2.1E-176
127	M00023309D:H04	MA36:E09		AL136720	gi 12052958 emb AL136720.1HSM801 688 Homo sapiens mRNA; cDNA DKFZp566J2046 (from clone DKFZp566J2046); complete cds	0
128	M00023310A:D07	MA36:F09		AL359587	gi 8655647 emb AL359587.1HSM8026 89 Homo sapiens mRNA; cDNA DKFZp762M115 (from clone DKFZp762M115)	0
129	M00008079C:H04	MA30:B09		AF201943	gi 9295189 gb AF201943.1AF201943 Homo sapiens HAH-P (HAH-P) mRNA, complete cds	5.6E-258
130	M00008080B:B10	MA30:F09		D50683	gi 1827474 dbj D50683.1D50683 Homo sapiens mRNA for TGF-beta1IR alpha, complete cds	1.3E-224
131	M00022198D:C02	MA35:F09		BC001546	gi 16306729 gb BC001546.1BC001546 Homo sapiens, Similar to RIKEN cDNA 1110064N10 gene, clone MGC:4924 IMAGE:3462041, mRNA, complete	1E-300
132	M00022198D:G03	MA35:G09		X54199	gi 31641 emb X54199.1HSGAGMR Human mRNA for GARS-AIRS-GART	1.1E-231
133	M00003768B:B09	MA24:D03		M32308	gi 202453 gb M32308.1MUSZFXAA Mouse zinc finger protein (Zfx) mRNA, complete cds, clone pDP1115	2.4E-103
134	M00022110C:A08	MA34:C09		AK026894	gi 10439861 dbj AK026894.1AK02689 4 Homo sapiens cDNA: FLJ23241 fis, clone COL01375	9.2E-288
135	M00003886C:H08	MA24:E09	0.36691	AK056001	gi 16550873 dbj AK056001.1AK05600 1 Homo sapiens cDNA FLJ31439 fis, clone NT2NE2000707	7.9E-146
136	M00023297B:A10	MA22:D03		M33376	gi 187444 gb M33376.1HUMMC2DR2 Human pseudo-chlordecone reductase mRNA, complete cds	0
137	M00023314C:G05	MA22:G03		D87071	gi 1510142 dbj D87071.1D87071 Human mRNA for KIAA0233 gene, complete cds	1.7E-178
138	M00001363B:C04	MA14:D03		AY007220	gi 9945039 gb AY007220.1 Homo sapiens S100-type calcium binding protein A14 mRNA, complete cds	1.8E-120
139	M00001434D:F08	MA16:D03		NM_000852	gi 6552334 ref NM_000852.2 Homo sapiens glutathione S-transferase pi (GSTP1), mRNA	1E-300
140	M00001435B:A04	MA16:E03		X99920	gi 1694827 emb X99920.1HSS100A13 H.sapiens mRNA for S100 calcium-binding protein A13	1.1E-265

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
141	M00001435B:B09	MA16:F03		Y00433	gi 31917 emb Y00433.1HSGSHPX Human mRNA for glutathione peroxidase (EC 1.11.1.9.)	8.4E-226
142	M00001435C:F08	MA16:H03		BC006498	gi 13676331 gb BC006498.1BC006498 Homo sapiens, ribonucleotide reductase M1 polypeptide, clone MGC:2326 IMAGE:2989344, mRNA, comple	1E-300
143	M00001381A:F03	MA14:A09		BC007590	gi 14043203 gb BC007590.1BC007590 Homo sapiens, ribosomal protein, large, P1, clone MGC:15616 IMAGE:3343021, mRNA, complete cds	4.8E-246
144	M00001453B:E11	MA16:B09		BC001182	gi 12654686 gb BC001182.1BC001182 Homo sapiens, clone MGC:2616 IMAGE:3357266, mRNA, complete cds	1E-300
145	M00001453C:D02	MA16:D09		BC007435	gi 13938568 gb BC007435.1BC007435 Homo sapiens, RNA binding motif protein, X chromosome, clone MGC:4146 IMAGE:3010123, mRNA, comple	1E-300
146	M00007121D:A05	MA243:A03		BC012816	gi 15215444 gb BC012816.1BC012816 Homo sapiens, TGFB-induced factor 2 (TALE family homeobox), clone MGC:4139 IMAGE:2964507, mRNA, c	1E-300
147	M00007122C:F03	MA243:B03		BC001866	gi 12804840 gb BC001866.1BC001866 Homo sapiens, replication factor C (activator 1) 5 (36.5kD), clone MGC:1155 IMAGE:3544137, mRNA,	6.4E-227
148	M00006638A:G02	MA241:C03		J05036	gi 181193 gb J05036.1HUMCTSE Human cathepsin E mRNA, complete cds	6.7E-153
149	M00006639B:H09	MA241:F03	0.36075	BC014188	gi 15559664 gb BC014188.1BC014188 Homo sapiens, Similar to golgi autoantigen, golgin subfamily a, 2, clone MGC:20672 IMAGE:4644480,	5.6E-135
150	M00007127C:C11	MA243:H03		AB020718	gi 4240310 dbj AB020718.1AB020718 Homo sapiens mRNA for KIAA0911 protein, complete cds	0
151	M00006720D:C11	MA241:E09		AF242773	gi 7638246 gb AF242773.1AF242773 Homo sapiens mesenchymal stem cell protein DSCD75 mRNA, complete cds	1.2E-218
152	M00006728C:E07	MA241:F09		L05093	gi 401844 gb L05093.1HUMRIBPROD Homo sapiens ribosomal protein L18a mRNA, complete cds	0

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
153	M00026931D:E08	MA40:F04		AK056187	gi 16551522 dbj AK056187.1AK056187 Homo sapiens cDNA FLJ31625 fis, clone NT2R12003304	2.9E-275
154	M00026932D:B08	MA40:G04		NM_022553	gi 15022812 ref NM_022553.2 Homo sapiens SAC2 (suppressor of actin mutations 2, yeast, homolog)-like (SACM2L), mRNA	1E-300
155	M00026969D:D02	MA40:D10	0.05447	AK027681	gi 14042541 dbj AK027681.1AK027681 Homo sapiens cDNA FLJ14775 fis, clone NT2RP4000185	6.5E-159
156	M00023393B:E02	MA37:E10		BC001449	gi 12655184 gb BC001449.1BC001449 Homo sapiens, heterogeneous nuclear ribonucleoprotein R, clone MGC:2039 IMAGE:3139052, mRNA, comp	9.4E-157
157	M00003782D:D06	MA244:E04		BC000705	gi 12653832 gb BC000705.1BC000705 Homo sapiens, clone MGC:861 IMAGE:3349507, mRNA, complete cds	1.6E-295
158	M00004105D:B04	MA244:G04		AK056461	gi 16551872 dbj AK056461.1AK056461 Homo sapiens cDNA FLJ31899 fis, clone NT2RP7004173	1E-300
159	M00001556D:B11	MA244:D10	0.46689			
160	M00021664B:G03	MA31:E10	0.87158			
161	M00004078A:A07		0.47872			
162	M00001561A:B03	MA23:D10		AF090935	gi 6690235 gb AF090935.1AF090935 Homo sapiens clone HQ0569	3.4E-256
163	M00008023C:A06	MA29:F07		U79296	gi 1710278 gb U79296.1HSU79296 Human dihydrolipoamide acetyl transferase mRNA, partial cds	2.2E-257
164	M00008024C:F02	MA29:G07	0.26504	AF092737	gi 4741762 gb AF092737.1AF092737 Homo sapiens ubiquitously expressed transcript (UXT) mRNA, complete cds	3.5E-170
165	M00008024C:G06	MA29:H07		BC017335	gi 16878274 gb BC017335.1BC017335 Homo sapiens, clone MGC:29782 IMAGE:4642600, mRNA, complete cds	1E-300
166	M00022057C:H10	MA33:B07		AK027629	gi 14042438 dbj AK027629.1AK027629 Homo sapiens cDNA FLJ14723 fis, clone NT2RP3001708, weakly similar to TWISTED GASTRULATION PROTE	6.8E-79
167	M00022059B:B06	MA33:C07		BC005267	gi 14710008 gb BC005267.1BC005267 Homo sapiens, clone IMAGE:3683864, mRNA	1E-300
168	M00026902B:F10	MA39:B10		L15203	gi 402482 gb L15203.1HUMPIBX Human secretory protein (P1.B) mRNA, complete cds	4.8E-249

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
169	M00001394D:B08	MA15:C04		U58773	gi 6502504 gb U58773.1HSU58773 Human calcium binding protein mRNA, complete cds	1E-300
170	M00001415A:G05	MA15:A10		BC006337	gi 13623468 gb BC006337.1BC006337 Homo sapiens, clone MGC:12798 IMAGE:4304127, mRNA, complete cds	1.5E-205
171	M00001416B:E03	MA15:B10		X57198	gi 37071 emb X57198.1HSTFIIS Human TFIIS mRNA for transcription elongation factor	0
172	M00001421B:B12	MA15:H10		AF083246	gi 5106786 gb AF083246.1HSPC028 Homo sapiens HSPC028 mRNA, complete cds	0
173	M00005528C:E02	MA242:G04		AK054675	gi 16549267 dbj AK054675.1AK054675 5 Homo sapiens cDNA FLJ30113 fis, clone BNGH42000474	1.5E-286
174	M00023312D:F10	MA36:A10	0.47266			
175	M00022157A:C06	MA35:C04	0.05831			
176	M00022165A:A11	MA35:H04		AK000084	gi 7019941 dbj AK000084.1AK000084 Homo sapiens cDNA FLJ20077 fis, clone COL02904	0
177	M00022206A:B10	MA35:D10		AL137546	gi 6808228 emb AL137546.1HSM802283 Homo sapiens mRNA; cDNA DKFZp434A1920 (from clone DKFZp434A1920); partial cds	1E-293
178	M00003811B:F09			BC009470	gi 14495716 gb BC009470.1BC009470 Homo sapiens, protein kinase, interferon-inducible double stranded RNA dependent activator, clone	0
179	M00003812D:A11			AK026526	gi 10439403 dbj AK026526.1AK026526 6 Homo sapiens cDNA: FLJ22873 fis, clone KAT02673, highly similar to HUM12A Human ribosomal prote	7.6E-137
180	M00022088D:C10	MA34:G04				
181	M00003910B:C12			AF132945	gi 4680660 gb AF132945.1AF132945 Homo sapiens CGI-11 protein mRNA, complete cds	0
182	M00001366A:F06	MA14:A04		U24704	gi 2078477 gb U24704.1HSU24704 Human antiseecretory factor-1 mRNA, complete cds	0
183	M00001435C:F12	MA16:B04		BC003576	gi 13097755 gb BC003576.1BC003576 Homo sapiens, actinin, alpha 1, clone MGC:2358 IMAGE:3547017, mRNA, complete cds	1E-300

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
184	M00001436B:E11	MA16:C04		BC003573	gi 13097746 gb BC003573.1BC003573 Homo sapiens, farnesyl-diphosphate farnesyltransferase 1, clone MGC:2200 IMAGE:3538137, mRNA, com	0
185	M00001366B:E01	MA14:D04		AK000609	gi 7020817 dbj AK000609.1AK000609 Homo sapiens cDNA FLJ20602 fis, clone KAT07189	1E-300
186	M00001436C:C03	MA16:D04		Z37986	gi 780262 emb Z37986.1HSPHBIPRM H.sapiens mRNA for phenylalkylamine binding protein	1E-300
187	M00001437A:B01	MA16:F04		NM_000994	gi 15812220 ref NM_000994.2 Homo sapiens ribosomal protein L32 (RPL32), mRNA	4.1E-240
188	M00001437B:B08	MA16:G04		AF095287	gi 3766235 gb AF095287.1AF095287 Homo sapiens pituitary tumor transforming gene protein 1 (PTTG1) mRNA, complete cds	2.5E-294
189	M00001467B:H05			J04456	gi 187109 gb J04456.1HUMLEC Human 14 kd lectin mRNA, complete cds	1.9E-273
190	M00001468A:D02	MA16:F10		U71213	gi 1621431 gb U71213.1HSMIGST04 Homo sapiens microsomal glutathione s-transferase gene, exon 4, alternatively spliced transcripts,	5.7E-127
191	M00007131B:B11	MA243:B04		BC017931	gi 17389843 gb BC017931.1BC017931 Homo sapiens, Similar to RIKEN cDNA 1110055A02 gene, clone MGC:23962 IMAGE:4669658, mRNA, complet	0
192	M00006650A:A10	MA241:E04				
193	M00006653C:B09	MA241:G04	0.0956	M17885	gi 190231 gb M17885.1HUMPPARP0 Human acidic ribosomal phosphoprotein P0 mRNA, complete cds	2.6E-186
194	M00007154B:H08	MA243:G04		BC016367	gi 16741029 gb BC016367.1BC016367 Homo sapiens, retinal short-chain dehydrogenase/reductase retSDR2, clone MGC:24582 IMAGE:4133318,	1E-300
195	M00006740A:E02	MA241:A10				
196	M00021621A:D04	MA243:A10		NM_003137	gi 15834623 ref NM_003137.2 Homo sapiens SFRS protein kinase 1 (SRPK1), mRNA	2.3E-285
197	M00006740B:F11	MA241:B10		AK022929	gi 10434601 dbj AK022929.1AK022929 9 Homo sapiens cDNA FLJ12867 fis, clone NT2RP2003702, highly similar to Homo sapiens 17 beta-hydro	4.9E-277

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
198	M00006741C:A01	MA241:C10		AF201939	gi 9295181 gb AF201939.1AF201939 Homo sapiens DC5 (DC5) mRNA, complete cds	7.6E-183
199	M00022171C:A04	MA243:F10		BC000793	gi 12653990 gb BC000793.1BC000793 Homo sapiens, eukaryotic translation initiation factor 1A, clone MGC:5131 IMAGE:3451631, mRNA, co	0
200	M00026937C:B08	MA40:E05		AF151534	gi 8099341 gb AF151534.1AF151534 Homo sapiens core histone macroH2A2.2 (MACROH2A2) mRNA, complete cds	9.5E-177
201	M00023367A:H06	MA37:G05	0.04244	BC015958	gi 16358989 gb BC015958.1BC015958 Homo sapiens, clone MGC:15290 IMAGE:3940309, mRNA, complete cds	2.6E-257
202	M00026985C:E12	MA40:F11		BC000927	gi 12654216 gb BC000927.1BC000927 Homo sapiens, Similar to poly (A) polymerase, clone MGC:5378 IMAGE:3445706, mRNA, complete cds	0
203	M00008100A:A07	MA31:B05		AF247820	gi 13186200 gb AF247820.3AF247820 Homo sapiens NAG22 protein mRNA, complete cds	4.1E-237
204	M00007936B:H07	MA27:E05		BC001929	gi 12804952 gb BC001929.1BC001929 Homo sapiens, clone MGC:3993 IMAGE:2819500, mRNA, complete cds	8.4E-145
205	M00008100C:E05	MA31:F05	0.05241	AF395203	gi 15028449 gb AF395203.1AF395203 Cercopithecus aethiops DnaJ-like protein (dj2) mRNA, complete cds	6.5E-156
206	M00007947B:B02	MA27:E11				
207	M00004105A:C09	MA25:F05		BC010042	gi 14603152 gb BC010042.1BC010042 Homo sapiens, clone MGC:19606 IMAGE:3629513, mRNA, complete cds	1.6E-202
208	M00001433C:D09	MA23:G05		U23070	gi 1262172 gb U23070.1HSU23070 Human putative transmembrane protein (nma) mRNA, complete cds	0
209	M00008027B:D09	MA29:B09		M33132	gi 189423 gb M33132.1HUMP12AA Human proliferating cell nucleolar protein P120 gene, exons 1-15	4.8E-165
210	M00008028D:B01	MA29:D09		AB014595	gi 3327203 dbj AB014595.1AB014595 Homo sapiens mRNA for KIAA0695 protein, complete cds	1E-300
211	M00008039A:C09	MA29:F09	0.04	BC013869	gi 17105403 gb BC013869.1BC013869 Homo sapiens, clone IMAGE:3831740, mRNA	2.6E-291

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
212	M00026905A:A10	MA39:A11		AF069073	gi 3202003 gb AF069073.1AF069073 Homo sapiens P8 protein mRNA, complete cds	0
213	M00026905D:C05	MA39:C11		BC010631	gi 14714946 gb BC010631.1BC010631 Homo sapiens, clone IMAGE:3867552, mRNA	3.3E-281
214	M00001401B:A06	MA15:G05		U90313	gi 2393721 gb U90313.1HSU90313 Human glutathione-S-transferase homolog mRNA, complete cds	0
215	M00001402A:A08	MA15:H05	0.03584	X74215	gi 414045 emb X74215.1HSLON H.sapiens mRNA for Lon protease-like protein	7E-181
216	M00005534C:E12	MA242:A05	0.55385			
217	M00005542A:D09	MA242:D05		NM_001428	gi 16507965 ref NM_001428.2 Homo sapiens enolase 1, (alpha) (ENO1), mRNA	1.1E-218
218	M00007031D:E02	MA240:F11		NM_005463	gi 14110410 ref NM_005463.2 Homo sapiens heterogeneous nuclear ribonucleoprotein D-like (HNRPDL), transcript variant 1, mRNA	2.8E-186
219	M00007032A:D04	MA240:G11		D89678	gi 3218539 dbj D89678.1D89678 Homo sapiens mRNA for A+U-rich element RNA binding factor, complete cds	5.2E-225
220	M00005813C:F12	MA242:H11		BC000659	gi 12653746 gb BC000659.1BC000659 Homo sapiens, clone MGC:1004 IMAGE:3347423, mRNA, complete cds	1.8E-245
221	SL163	MA248:B05	0.82548			
222	SL164	MA248:C05	0.43491	AF415175	gi 16589063 gb AF415175.1AF415175 Homo sapiens putative SH3 domain-containing guanine exchange factor SGEF (SGEF) mRNA, complete cd	4.9E-102
223	SL167	MA248:F05	0.13452	AK025140	gi 10437598 dbj AK025140.1AK025140 Homo sapiens cDNA: FLJ21487 fis, clone COL05419	5.5E-159
224	SL168	MA248:G05	0.72115			
225	SL169	MA248:H05				
226	M00023320B:A03	MA36:H11		BC006428	gi 13623618 gb BC006428.1BC006428 Homo sapiens, hypothetical protein, clone MGC:12969 IMAGE:3343683, mRNA, complete cds	6.8E-298
227	M00005350B:F10	MA246:C05		BC014191	gi 15559670 gb BC014191.1BC014191 Homo sapiens, clone MGC:20633 IMAGE:4761663, mRNA, complete cds	4.7E-218
228	M00008069D:F01	MA30:B05	0.09317			

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
229	M00022165B:C08	MA35:B05		BC012585	gi 15214891 gb BC012585.1BC012585 Homo sapiens, clone IMAGE:4332982, mRNA	5.4E-199
230	M00022165C:E12	MA35:D05		NM_001024	gi 14670385 ref NM_001024.2 Homo sapiens ribosomal protein S21 (RPS21), mRNA	4E-184
231	M00022166C:E07	MA35:E05		D87717	gi 1663709 dbj D87717.1D87717 Human mRNA for KIAA0013 gene, complete cds	1.8E-139
232	M00008072D:E12	MA30:F05		BC007581	gi 14043186 gb BC007581.1BC007581 Homo sapiens, aldehyde dehydrogenase 4 family, member A1, clone MGC:15564 IMAGE:3139944, mRNA, co	6.5E-264
233	M00022211B:D05	MA35:A11		AK025494	gi 10438028 dbj AK025494.1AK025494 4 Homo sapiens cDNA: FLJ21841 fis, clone HEP01831	2.3E-226
234	M00008089A:E09	MA30:G11		AB050577	gi 14317901 dbj AB050577.1AB050577 Homo sapiens NUF2 mRNA for kinetochore protein Nuf2, complete cds	1.1E-231
235	M00003974D:E04	MA24:C11		AF136185	gi 6625654 gb AF136185.1AF136185 Homo sapiens collagen type XVII (COL17A1) gene, 3' UTR, long form	3.5E-228
236	M00003980D:F10	MA24:F11		AF150100	gi 5107187 gb AF150100.1AF150100 Homo sapiens small zinc finger-like protein (TIM9a) mRNA, complete cds	5E-252
237	M00003984D:C08	MA24:H11		AL133560	gi 6599130 emb AL133560.1HSM801406 Homo sapiens mRNA; cDNA DKFZp434M1414 (from clone DKFZp434M1414); partial cds	0
238	M00023373D:A01	MA22:E05		AK023875	gi 10435944 dbj AK023875.1AK023875 5 Homo sapiens cDNA FLJ13813 fis, clone THYRO1000358, moderately similar to SELENIUM-BINDING LIVER	2.2E-201
239	M00023396D:D01	MA22:H05	0.48026			
240	M00001437D:E12	MA16:A05		M30684	gi 177064 gb M30684.1GORMHCBAA Gorilla gorilla beta-2-microglobulin mRNA (GOGOB2M)	2.3E-260
241	M00001438A:B09	MA16:B05		BC005230	gi 13528857 gb BC005230.1BC005230 Homo sapiens, ubiquinol-cytochrome c reductase binding protein, clone MGC:12253 IMAGE:3961169, mR	3.6E-259

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
242	M00001369A:C07	MA14:E05		AF097514	gi 4808600 gb AF097514.1AF097514 Homo sapiens stearoyl-CoA desaturase (SCD) mRNA, complete cds	2.2E-229
243	M00001439C:A07	MA16:F05		BC017270	gi 16878126 gb BC017270.1BC017270 Homo sapiens, homolog of yeast long chain polyunsaturated fatty acid elongation enzyme 2, clone M	3.7E-106
244	M00001369C:A05	MA14:H05		AF190167	gi 6456117 gb AF190167.1AF190167 Homo sapiens membrane associated protein SLP-2 (HUSLP2) mRNA, complete cds	1E-300
245	M00001468D:B11	MA16:A11		BC008442	gi 14250074 gb BC008442.1BC008442 Homo sapiens, Similar to transmembrane 4 superfamily member 1, clone MGC:14656 IMAGE:4101110, mRN	5.3E-149
246	M00001386B:F08	MA14:B11		AF132818	gi 6580834 gb AF132818.1AF132818 Homo sapiens colon Kruppel-like factor (CKLF) mRNA, complete cds	3E-169
247	M00001387A:A08	MA14:F11		NM_022551	gi 14165467 ref NM_022551.2 Homo sapiens ribosomal protein S18 (RPS18), mRNA	7E-298
248	M00007163A:B10	MA243:B05		D29013	gi 517113 dbj D29013.1HUMLNCAP Human mRNA for DNA polymerase beta, complete cds	1.5E-178
249	M00006675C:A06	MA241:E05		BC009534	gi 16306927 gb BC009534.1BC009534 Homo sapiens, clone IMAGE:3891886, mRNA, partial cds	3.1E-250
250	M00007191C:A06	MA243:G05		BC001765	gi 12804678 gb BC001765.1BC001765 Homo sapiens, Similar to stromal antigen 2, clone MGC:1282 IMAGE:3352347, mRNA, complete cds	1.7E-295
251	M00006678A:D02	MA241:H05		NM_002475	gi 17986280 ref NM_002475.2 Homo sapiens myosin light chain 1 slow a (MLC1SA), mRNA	1E-240
252	M00026941C:A12	MA40:E06		BC018910	gi 17511916 gb BC018910.1BC018910 Homo sapiens, clone MGC:10643 IMAGE:3959973, mRNA, complete cds	2.6E-149
253	M00026996A:E01	MA40:E12	0.05985	AF238079	gi 7542489 gb AF238079.1AF238079 Homo sapiens FK506 binding protein precursor (FKBP19) mRNA, complete cds	0
254	M00023401B:E06	MA37:G12	0.71373			

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
255	M00027005B:D03	MA40:H12		AL137626	gi 6808422 emb AL137626.1HSM802390 Homo sapiens mRNA; cDNA DKFZp434O0712 (from clone DKFZp434O0712); partial cds	5.8E-289
256	M00007937B:A02	MA27:C06		Z18948	gi 396712 emb Z18948.1HSS100E H.sapiens mRNA for S100E calcium binding protein	1.3E-174
257	M00021612C:E11	MA31:C06	0.60788	AB032969	gi 6329965 dbj AB032969.1AB032969 Homo sapiens mRNA for KIAA1143 protein, partial cds	1.2E-92
258	M00007938C:C12	MA27:G06		BC002360	gi 12803112 gb BC002360.1BC002360 Homo sapiens, U5 snRNP-specific protein, 116 kD, clone MGC:8581 IMAGE:2960986, mRNA, complete cds	3.1E-122
259	M00001623C:A06	MA23:F12		BC000629	gi 12653688 gb BC000629.1BC000629 Homo sapiens, Similar to aspartyl-tRNA synthetase, clone MGC:1562 IMAGE:3344322, mRNA, complete c	9.9E-238
260	M00001630D:A11	MA23:G12		AF179626	gi 6457296 gb AF179626.1AF179626 Expression vector pGP100, complete sequence	1.7E-298
261	M00008044B:E11	MA29:A11		AF083420	gi 5326765 gb AF083420.1AF083420 Homo sapiens brain-specific STE20-like protein kinase 3 (STK3) mRNA, complete cds	4.5E-268
262	M00008044C:C10	MA29:B11		AF224759	gi 12043739 gb AF224759.1AF224759 Homo sapiens adenocarcinoma antigen ART1/P17 mRNA, complete cds	1.3E-277
263	M00008044D:B08	MA29:C11	0.82704	BC019356	gi 17939588 gb BC019356.1BC019356 Homo sapiens, clone IMAGE:3503646, mRNA	5.4E-27
264	M00008044D:C05	MA29:D11		M23161	gi 339899 gb M23161.1HUMTRANSC Human transposon-like element mRNA	5.4E-160
265	M00022074C:A04	MA33:E11				
266	M00026910C:D12	MA39:E12		J03037	gi 179771 gb J03037.1HUMCAIIA Human carbonic anhydrase II mRNA, complete cds	2.4E-263
267	M00026913A:D06	MA39:G12		AK058163	gi 16554226 dbj AK058163.1AK058163 3 Homo sapiens cDNA FLJ25434 fis, clone TST06728, highly similar to ELONGATION FACTOR 1-ALPHA 1	2.9E-275

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
268	M00001402C:H08	MA15:D06		BC000461	gi 12653382 gb BC000461.1BC000461 Homo sapiens, eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD), clone MGC:8508	0
269	M00001404C:C11	MA15:F06		BC001497	gi 16306642 gb BC001497.1BC001497 Homo sapiens, clone MGC:2068 IMAGE:2823581, mRNA, complete cds	1.4E-286
270	M00005587B:G05	MA242:C06		BC001566	gi 16306756 gb BC001566.1BC001566 Homo sapiens, clone IMAGE:3451980, mRNA, partial cds	8.5E-282
271	M00006934D:D10	MA240:C06		D63861	gi 1769811 dbj D63861.1D63861 Homo sapiens DNA for cyclophilin 40, complete cds	7.5E-142
272	SL176	MA248:G06				
273	M00023295D:E05	MA36:A06		M16957	gi 188249 gb M16957.1HUMMHDRA 2D Human MHC class II HLA-DR2 (Dw2) b-associated glycoprotein beta-chain mRNA, 3' end	5.2E-227
274	M00023320B:C02	MA36:A12				
275	M00005401B:F12	MA246:B12		U47742	gi 1517913 gb U47742.1HSU47742 Human monocytic leukaemia zinc finger protein (MOZ) mRNA, complete cds	4.4E-54
276	M00008074D:C05	MA30:F06		AF035289	gi 2661043 gb AF035289.1AF035289 Homo sapiens clone 23969 mRNA sequence	3.3E-197
277	M00022175B:F06	MA35:G06		U81002	gi 4580010 gb U81002.1HSU81002 Homo sapiens TRAF4 associated factor 1 mRNA, partial cds	1.1E-212
278	M00022230B:C10	MA35:G12		BC019061	gi 17512149 gb BC019061.1BC019061 Homo sapiens, Similar to RIKEN cDNA 1500019E20 gene, clone IMAGE:5089739, mRNA	7.5E-149
279	M00022093C:C08	MA34:C06		AB061831	gi 17932955 dbj AB061831.1AB061831 Homo sapiens RPL32 gene for ribosomal protein L32, complete cds and sequence	1.1E-184
280	M00022093C:C12	MA34:D06		BC009401	gi 14424786 gb BC009401.1BC009401 Homo sapiens, natural killer cell transcript 4, clone MGC:15353 IMAGE:4300407, mRNA, complete cds	9.9E-294
281	M00022132A:H07	MA34:F12		BC015557	gi 15990394 gb BC015557.1BC015557 Homo sapiens, clone MGC:1567 IMAGE:3050731, mRNA, complete cds	1E-300

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
282	M00023397B:D04	MA22:A06		AF083441	gi 5813822 gb AF083441.1AF083441 Homo sapiens SUI1 isolog mRNA, complete cds	1E-300
283	M00023399D:G04	MA22:E06		BC004450	gi 13325265 gb BC004450.1BC004450 Homo sapiens, hypothetical protein MGC2650, clone MGC:4188 IMAGE:2820830, mRNA, complete cds	1E-300
284	M00001439D:C09	MA16:A06		BC002446	gi 12803262 gb BC002446.1BC002446 Homo sapiens, MRJ gene for a member of the DNAJ protein family, clone MGC:1152 IMAGE:3346070, mRN	0
285	M00001441A:A09	MA16:B06		M57710	gi 179530 gb M57710.1HUMBPIGE Human IgE-binding protein (epsilon-BP) mRNA, complete cds	1.7E-295
286	M00001369D:E02	MA14:C06		AF034546	gi 3127052 gb AF034546.1AF034546 Homo sapiens sorting nexin 3 (SNX3) mRNA, complete cds	1.9E-195
287	M00001371D:H10	MA14:E06				
288	M00001372A:D01	MA14:F06		AF151872	gi 4929696 gb AF151872.1AF151872 Homo sapiens CGI-114 protein mRNA, complete cds	0
289	M00001444C:F03	MA16:G06		AL359678	gi 15215911 emb AL359678.15AL359678 Human DNA sequence from clone RP11-550J21 on chromosome 9, complete sequence [Homo sapiens]	0
290	M00001445A:B02			BC003401	gi 13097293 gb BC003401.1BC003401 Homo sapiens, ribosomal protein S14, clone MGC:5429 IMAGE:3448752, mRNA, complete cds	9.7E-291
291	M00001388D:F11	MA14:D12		BC002609	gi 12803554 gb BC002609.1BC002609 Homo sapiens, chromobox homolog 1 (Drosophila HP1 beta), clone MGC:1267 IMAGE:3140815, mRNA, comp	0
292	M00001481C:A12	MA16:F12		AB033007	gi 6330242 dbj AB033007.1AB033007 Homo sapiens mRNA for KIAA1181 protein, partial cds	2.9E-88
293	M00001389B:B05	MA14:G12		BC013858	gi 15426627 gb BC013858.1BC013858 Homo sapiens, clone IMAGE:3869909, mRNA	2E-239
294	M00001389C:G01	MA14:H12	0.07529	AY004872	gi 9508996 gb AY004872.1 Homo sapiens thioredoxin (TXN) mRNA, complete cds	4.6E-175

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
295	M00001482D:D11	MA16:H12	0.07738	BC009982	gi 14602997 gb BC009982.1BC009982 Homo sapiens, clone IMAGE:4121355, mRNA, partial cds	5.1E-169
296	M00006809B:F04	MA241:D12	0.62333			
297	I:3325119:07A01:A01	MA127:A01		U21936	gi 717118 gb U21936.1HSU21936 Human peptide transporter (HPEPT1) mRNA, complete cds	1.4E-149
298	I:3033345:07A01:C01	MA127:C01		BC004982	gi 13436412 gb BC004982.1BC004982 Homo sapiens, glucose phosphate isomerase, clone MGC:3935 IMAGE:2906270, mRNA, complete cds	9E-229
299	I:3176222:07A01:E07	MA127:E07		U09413	gi 488554 gb U09413.1HSU09413 Human zinc finger protein ZNF135 mRNA, complete cds	1.9E-264
300	I:2510627:07B01:G07	MA129:G07		BC002803	gi 12803912 gb BC002803.1BC002803 Homo sapiens, hypothetical protein, clone MGC:3402 IMAGE:3636703, mRNA, complete cds	1E-300
301	I:1705208:06B01:A01	MA125:A01		X52541	gi 31129 emb X52541.1HSEGR1 Human mRNA for early growth response protein 1 (hEGR1)	0
302	I:1672781:06B01:C07	MA125:C07		BC010042	gi 14603152 gb BC010042.1BC010042 Homo sapiens, clone MGC:19606 IMAGE:3629513, mRNA, complete cds	1E-300
303	I:1712888:06B01:D07	MA125:D07		AL137469	gi 6808076 emb AL137469.1HSM8021 87 Homo sapiens mRNA; cDNA DKFZp434P2422 (from clone DKFZp434P2422); partial cds	1E-300
304	I:1696224:06B01:E07	MA125:E07		NM_005346	gi 5579470 ref NM_005346.2 Homo sapiens heat shock 70kD protein 1B (HSPA1B), mRNA	1E-300
305	I:3935034:06B01:H07	MA125:H07		BC007616	gi 14043251 gb BC007616.1BC007616 Homo sapiens, clone MGC:15728 IMAGE:3354330, mRNA, complete cds	1.2E-249
306	I:1800114:03A01:E01	MA111:E01		M24559	gi 514365 gb M24559.1HUMIGRPOL Y Human poly-Ig receptor transmembrane secretory component mRNA, 3' end	1.5E-205
307	I:1976029:03A01:D07	MA111:D07		BC000629	gi 12653688 gb BC000629.1BC000629 Homo sapiens, Similar to aspartyl-tRNA synthetase, clone MGC:1562 IMAGE:3344322, mRNA, complete c	1.1E-299
308	I:1439934:03B01:E07	MA113:E07	0.17464	M64788	gi 190855 gb M64788.1HUMRAP1GA P Human GTPase activating protein (rap1GAP) mRNA, complete cds	5.9E-184

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
309	I:2512879:01A01:C01	MA103:C01		M12271	gi 178091 gb M12271.1HUMADH1CB Homo sapiens class I alcohol dehydrogenase (ADH1) alpha subunit mRNA, complete cds	3.7E-290
310	I:2900277:01B01:B07	MA105:B07		BC015492	gi 15930098 gb BC015492.1BC015492 Homo sapiens, clone MGC:8967 IMAGE:3915505, mRNA, complete cds	1E-300
311	I:1479255:01A01:C07	MA103:C07		NM_002245	gi 15451900 ref NM_002245.2 Homo sapiens potassium channel, subfamily K, member 1 (TWIK-1) (KCNK1), mRNA	1E-300
312	I:2648612:04B01:A01	MA117:A01		NM_006013	gi 15718685 ref NM_006013.2 Homo sapiens ribosomal protein L10 (RPL10), mRNA	1E-300
313	I:1889867:04A01:C01	MA115:C01		AF004563	gi 3041874 gb AF004563.1AF004563 Homo sapiens hUNC18b alternatively-spliced mRNA, complete cds	8.2E-148
314	I:1858905:04A01:D01	MA115:D01		BC015520	gi 15930171 gb BC015520.1BC015520 Homo sapiens, ribonuclease, RNase A family, 4, clone MGC:9306 IMAGE:3905439, mRNA, complete cds	1.8E-211
315	I:2591494:04B01:H01	MA117:H01		BC009084	gi 14290606 gb BC009084.1BC009084 Homo sapiens, Similar to selenium binding protein 1, clone MGC:9270 IMAGE:3853674, mRNA, complete cds	0
316	I:2916261:04B01:A07	MA117:A07		BC016855	gi 16877177 gb BC016855.1BC016855 Homo sapiens, clone MGC:17066 IMAGE:3850361, mRNA, complete cds	5.9E-289
317	I:2397815:04B01:B07	MA117:B07		BC007888	gi 14043894 gb BC007888.1BC007888 Homo sapiens, eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD), clone MGC:1417	3.3E-253
318	I:2182095:04B01:D07	MA117:D07		NM_002580	gi 4505604 ref NM_002580.1 Homo sapiens pancreatitis-associated protein (PAP), mRNA	5.8E-289
319	I:2506194:02A01:A01	MA107:A01		U36601	gi 1036798 gb U36601.1HSU36601 Homo sapiens heparan N-deacetylase/N-sulfotransferase-2 mRNA, complete cds	1.3E-240
320	I:1806219:02A01:C01	MA107:C01		U34279	gi 1236798 gb U34279.1HSU34279 Human uroguanylin mRNA, complete cds	5.4E-202

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
321	I:1729724:02A01:G07	MA107:G07		NM_002487	gi 10800414 ref NM_002487.2 Homo sapiens needin homolog (mouse) (NDN), mRNA	3.1E-169
322	I:1886842:05A02:G01	MA120:G01		BC010578	gi 14714852 gb BC010578.1BC010578 Homo sapiens, clone MGC:9344 IMAGE:3458845, mRNA, complete cds	1.5E-292
323	I:1352669:05A02:B07	MA120:B07	0.10093	BC016752	gi 16876952 gb BC016752.1BC016752 Homo sapiens, clone IMAGE:2959721, mRNA	1.4E-169
324	I:1755847:05B02:C07	MA122:C07		U51095	gi 1777771 gb U51095.1HSU51095 Human homeobox protein Cdx1 mRNA, complete cds	5.9E-230
325	I:1803418:05B02:D07	MA122:D07		BC006168	gi 13544071 gb BC006168.1BC006168 Homo sapiens, clone IMAGE:3960207, mRNA, partial cds	0
326	I:1568725:05B02:F07	MA122:F07	0.36394	D49410	gi 684968 dbj D49410.1HUMIL3RA12 Homo sapiens gene for interleukin 3 receptor alpha subunit, exon 12 and partial cds	7.7E-187
327	I:1857708:05A02:G07	MA120:G07		U43381	gi 1155348 gb U43381.1HSU43381 Human Down Syndrome region of chromosome 21 DNA	1.3E-283
328	I:1687060:05B02:G07	MA122:G07		U57645	gi 1816511 gb U57645.1HSU57645 Human helix-loop-helix proteins Id-1 (ID-1) and Id-1' (ID-1) genes, complete cds	3.3E-281
329	I:3407289:07A02:A07	MA128:A07	0.21116	AB011135	gi 3043649 dbj AB011135.1AB011135 Homo sapiens mRNA for KIAA0563 protein, complete cds	1.7E-68
330	I:1235535:07A02:B07	MA128:B07		NM_001012	gi 4506742 ref NM_001012.1 Homo sapiens ribosomal protein S8 (RPS8), mRNA	3.8E-156
331	I:1525795:03B02:D07	MA114:D07		X05360	gi 29838 emb X05360.1HSCDC2 Human CDC2 gene involved in cell cycle control	1.5E-289
332	I:3744592:03A02:H07	MA112:H07		S76992	gi 913345 gb S76992.1S76992 VAV2=VAV oncogene homolog [human, fetal brain, mRNA Partial, 2753 nt]	1E-194
333	I:1485817:01A02:B01	MA104:B01		L14787	gi 292930 gb L14787.1HUMZFPA Human DNA-binding protein mRNA, 3'end	3.4E-247
334	I:2365149:01B02:B01	MA106:B01		U58917	gi 2826475 gb U58917.1HSU58917 Homo sapiens IL-17 receptor mRNA, complete cds	9E-208

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
335	I:1439677:01A02:D01	MA104:D01		AL096780	gi 5420184 cemb AL096780.1HS384D8 6A Novel human gene mapping to chromosome 22p13.33 similar to mouse Choline/Ethanolamine Kinase (O55 gi 17939418 gb BC019252.1BC019252 Homo sapiens, clone MGC:1111 IMAGE:3503549, mRNA, complete cds	1.8E-146
336	I:2372275:01B02:G01	MA106:G01		BC019252	gi 15489437 gb BC013808.1BC013808 Homo sapiens, TATA box binding protein (TBP)-associated factor, RNA polymerase I, A, 48kD, clone	1E-300
337	I:3211615:01B02:H01	MA106:H01		BC013808	gi 16552300 dbj AK056794.1AK05679 4 Homo sapiens cDNA FLJ32232 fis, clone PLACE6004578, highly similar to CYTOCHROME P450 11A1, MITO	2E-230
338	I:2368282:01B02:B07	MA106:B07		AK056794	gi 565646 dbj D26598.1HUMPSH1 Human mRNA for proteasome subunit HsC10-II, complete cds	5.8E-209
339	I:1737833:04A02:D01	MA116:D01		D26598	gi 2546963 cemb Y12653.1HSDIUBIQ U H.sapiens mRNA for diubiquitin	1E-300
340	I:2382192:04B02:F01	MA118:F01		Y12653	gi 1513058 dbj D87258.1D87258 Homo sapiens mRNA for serin protease with IGF-binding motif, complete cds	1.6E-264
341	I:1958902:04A02:D07	MA116:D07		D87258	gi 1519518 gb U66871.1HSU66871 Human enhancer of rudimentary homolog mRNA, complete cds	0
342	I:1704472:04B02:G07	MA118:G07		U66871	gi 2739055 gb AF025304.1AF025304 Homo sapiens protein-tyrosine kinase EPHB2v (EPHB2) mRNA, complete cds	7E-161
343	I:1903767:04A02:H07	MA116:H07		AF025304	gi 14133200 dbj AB006631.2AB00663 1 Homo sapiens mRNA for KIAA0293 gene, partial cds	1E-300
344	I:1268080:02A02:C01	MA108:C01		AB006631	gi 1743878 gb U78579.1HSU78579 Human type I phosphatidylinositol-4-phosphate 5-kinase beta (STM7) mRNA, partial cds	0
345	I:1347384:02A02:C07	MA108:C07		U78579		0
346	I:2344817:08B01:H02	MA133:H02				
347	I:3236109:08A01:B08	MA131:B08	0.46441			
348	I:2832506:07A01:H08	MA127:H08		BC000851	gi 12654082 gb BC000851.1BC000851 Homo sapiens, ribosomal protein L13, clone IMAGE:3458439, mRNA	8.5E-282
349	I:1673876:06B01:B02	MA125:B02		V00568	gi 34815 cemb V00568.1HSMYC1 Human mRNA encoding the c-myc oncogene	1E-300

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
350	I:3686211:06B01:E02	MA125:E02		X59960	gi 402620 emb X59960.1HSSPMYEL H.sapiens mRNA for sphingomyelinase	1E-300
351	I:2449837:06B01:H02	MA125:H02		BC000070	gi 12652644 gb BC000070.1BC000070 Homo sapiens, small nuclear ribonucleoprotein polypeptide G, clone MGC:1614 IMAGE:3503973, mRNA,	3E-219
352	I:1613874:06B01:C08	MA125:C08		AF019952	gi 2655036 gb AF019952.1AF019952 Homo sapiens tumor suppressing STF cDNA 1 (TSSC1) mRNA, complete cds	0
353	I:1813409:03A01:C02	MA111:C02		BC009244	gi 14328061 gb BC009244.1BC009244 Homo sapiens, isocitrate dehydrogenase 2 (NADP+), mitochondrial, clone MGC:3700 IMAGE:2959540, mR	1E-300
354	I:1975514:03A01:A08	MA111:A08		S52873	gi 263656 gb S52873.1S52873 cytidine deaminase [human, monocytoid cell line U937, mRNA Partial, 736 nt]	5.7E-286
355	I:1403294:01A01:B02	MA103:B02	0.13199		gi 950198 gb U31278.1HSU31278 Homo sapiens mitotic feedback control protein Madp2 homolog mRNA, complete cds	0
356	I:2414624:01B01:D02	MA105:D02		U31278	gi 15341817 gb BC013081.1BC013081 Homo sapiens, Similar to metallothionein 3 (growth inhibitory factor (neurotrophic)), clone MGC:1	2.6E-213
357	I:2901811:01B01:H02	MA105:H02		BC013081	gi 32122 emb V00522.1HSHL01 Human mRNA encoding major histocompatibility complex gene HLA- DR beta-I	2.5E-294
358	I:2683564:01B01:B08	MA105:B08		V00522	gi 2627330 gb AF004849.1AF004849 Homo sapiens PKY protein kinase mRNA, complete cds	1.4E-177
359	I:2725511:01B01:C08	MA105:C08		AF004849	gi 535474 gb M82962.1HUMPPH Human N-benzoyl-L-tyrosyl-p-amino- benzoic acid hydrolase alpha subunit (PPH alpha) mRNA, complete cds	1E-268
360	I:1431273:04A01:A02	MA115:A02		M82962	gi 3005731 gb AF055009.1AF055009 Homo sapiens clone 24747 mRNA sequence	0
361	I:1636639:04B01:A02	MA117:A02		AF055009	gi 14249818 gb BC008281.1BC008281 Homo sapiens, guanosine monophosphate reductase, clone MGC:10464 IMAGE:3635871, mRNA, complete cd	3.2E-281
362	I:2455617:04B01:D02	MA117:D02		BC008281		

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
363	I:2952504:04B01:F02	MA117:F02		U72849	gi 4097996 gb U72849.1HSAPEVPL7 Homo sapiens envoplakin (EVPL) gene, exon 22 and complete cds	1E-300
364	I:1483847:04A01:A08	MA115:A08		AF026293	gi 2559011 gb AF026293.1AF026293 Homo sapiens chaperonin containing t-complex polypeptide 1, beta subunit (Cctb) mRNA, complete cds	4E-93
365	I:2923150:04B01:B08	MA117:B08		M18963	gi 190978 gb M18963.1HUMREGA Human islet of Langerhans regenerating protein (reg) mRNA, complete cds	1.2E-237
366	I:1813133:04A01:F08	MA115:F08		X12597	gi 32326 emb X12597.1HSHMG1 Human mRNA for high mobility group-1 protein (HMG-1)	1.3E-255
367	I:2510171:04B01:H08	MA117:H08	0.15344	X04503	gi 36490 emb X04503.1HSSLIPR Human SLPI mRNA fragment for secretory leucocyte protease inhibitor	1.1E-259
368	I:2190284:02A01:H02	MA107:H02		D84107	gi 1669546 dbj D84107.1D84107 Homo sapiens mRNA for RBP-MS/type 1, complete cds	0
369	I:1522716:05B02:B02	MA122:B02		X56134	gi 37849 emb X56134.1HHSVIMENT Human mRNA for vimentin	0
370	I:1901271:05A02:G02	MA120:G02		U90916	gi 1913897 gb U90916.1HSU90916 Human clone 23815 mRNA sequence	9E-288
371	I:1820522:05B02:H02	MA122:H02		BC002806	gi 12803918 gb BC002806.1BC002806 Homo sapiens, phosphatidic acid phosphatase type 2C, clone MGC:3813 IMAGE:3659728, mRNA, complete	1.1E-299
372	I:2365295:05A02:A08	MA120:A08		BC015460	gi 15930032 gb BC015460.1BC015460 Homo sapiens, Similar to glutaminy-peptide cyclotransferase (glutaminy cyclase), clone IMAGE:39	3.8E-26
373	I:1335140:05A02:C08	MA120:C08		X02152	gi 34312 emb X02152.1HSLDHAR Human mRNA for lactate dehydrogenase-A (LDH-A, EC 1.1.1.27)	0
374	I:1822577:05B02:D08	MA122:D08		BC001941	gi 12804976 gb BC001941.1BC001941 Homo sapiens, tissue specific transplantation antigen P35B, clone MGC:4302 IMAGE:2819332, mRNA, c	1.7E-270
375	I:1306814:06B02:A08	MA126:A08		AK026649	gi 10439547 dbj AK026649.1AK026649 9 Homo sapiens cDNA: FLJ22996 fis, clone KAT11938	9.8E-135

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
376	I:3034694:06B02:D08	MA126:D08		BC008935	gi 14286273 gb BC008935.1BC008935 Homo sapiens, Similar to solute carrier family 25 (mitochondrial carrier; adenine nucleotide tran	4.6E-299
377	I:1453049:03B02:A02	MA114:A02		X76180	gi 452649 emb X76180.1HSLASNA H.sapiens mRNA for lung amiloride sensitive Na ⁺ channel protein	2.7E-269
378	I:1453748:03B02:D02	MA114:D02		BC013579	gi 15488897 gb BC013579.1BC013579 Homo sapiens, Similar to calpastatin, clone MGC:9402 IMAGE:3878564, mRNA, complete cds	2.6E-135
379	I:3001492:03A02:G02	MA112:G02		X75042	gi 402648 emb X75042.1HSRNAREL H.sapiens rel proto-oncogene mRNA	1.6E-295
380	I:3876715:03A02:C08	MA112:C08		BC000373	gi 12653210 gb BC000373.1BC000373 Homo sapiens, Similar to amyloid beta (A4) precursor-like protein 2, clone MGC:8371 IMAGE:2820109	6.4E-161
381	I:2992851:03A02:D08	MA112:D08		AF190637	gi 10441643 gb AF190637.1AF190637 Homo sapiens nephrin mRNA, complete cds	1.5E-286
382	I:1500649:03B02:G08	MA114:G08		AB008430	gi 2766164 dbj AB008430.1AB008430 Homo sapiens mRNA for CDEP, complete cds	1E-234
383	I:1512943:01A02:B02	MA104:B02		AJ005036	gi 3059108 emb AJ005036.1HSAJ5036 Homo sapiens mRNA for phosphodiesterase 3A (from corpus cavernosum)	9.1E-288
384	I:1467565:01A02:D02	MA104:D02		BC014991	gi 15929072 gb BC014991.1BC014991 Homo sapiens, clone MGC:23226 IMAGE:4909112, mRNA, complete cds	3.7E-262
385	I:2455118:01B02:D08	MA106:D08		X16396	gi 35070 emb X16396.1HSNMTDC Human mRNA for NAD-dependent methylene tetrahydrofolate dehydrogenase cyclohydrolase (EC 1.5.1.15)	0
386	I:2840251:01B02:E08	MA106:E08		U52513	gi 1777781 gb U52513.1HSU52513 Human RIG-G mRNA, complete cds	0
387	I:2911347:10B02:E02	MA67:E02	0.28302			
388	I:1812030:10B02:G08	MA67:G08		AB049758	gi 10800085 dbj AB049758.1AB049758 8 Homo sapiens mawbp mRNA for MAWD binding protein, complete cds	3.6E-200
389	I:2663606:04B02:F08	MA118:F08		U37690	gi 1017824 gb U37690.1HSU37690 Human RNA polymerase II subunit (hsRBP10) mRNA, complete cds	5.2E-196

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
390	I:1308333:02A02:E02	MA108:E02		BC017338	gi 16878283 gb BC017338.1BC017338 Homo sapiens, fucosidase, alpha-L- 1, tissue, clone MGC:29579 IMAGE:4871788, mRNA, complete cds	1.4E-286
391	I:1578941:02B02:E02	MA110:E02		AK058013	gi 16554011 dbj AK058013.1AK058013 Homo sapiens cDNA FLJ25284 fis, clone STM06787, highly similar to 15-HYDROXYPROSTAGLANDIN DEHYDR	1.2E-246
392	I:1535439:02A02:D08	MA108:D08		M83363	gi 190096 gb M83363.1HUMPMCA Human plasma membrane calcium-pumping ATPase (PMCA4) mRNA, complete cds	3.1E-250
393	I:1857475:02B02:H08	MA110:H08		AF009203	gi 2454508 gb AF009203.1AF009203 Homo sapiens YAC clone 377A1 unknown mRNA, 3'untranslated region	1.5E-292
394	I:2908878:08B01:F09	MA133:F09	0.46085			
395	I:2830575:07A01:C03	MA127:C03	0.06365	D16431	gi 598955 dbj D16431.1HUMHDGF Human mRNA for hepatoma-derived growth factor, complete cds	1.7E-289
396	I:1557906:07B01:G03	MA129:G03		AK057477	gi 16553199 dbj AK057477.1AK057477 Homo sapiens cDNA FLJ32915 fis, clone TEST12006425	5.8E-230
397	I:2200604:06B01:F03	MA125:F03		U47105	gi 4457236 gb U47105.2HSU47105 Homo sapiens H105c3 (H105c3) mRNA, complete cds	0
398	I:1653326:06A01:C09	MA123:C09		BC018881	gi 17403014 gb BC018881.1BC018881 Homo sapiens, clone IMAGE:3617364, mRNA	1E-296
399	I:1720149:06A01:G09	MA123:G09		U48959	gi 7239695 gb U48959.2HSU48959 Homo sapiens myosin light chain kinase (MLCK) mRNA, complete cds	2.4E-291
400	I:1560987:03B01:G03	MA113:G03		U17077	gi 1000711 gb U17077.1HSU17077 Human BENE mRNA, partial cds	2.3E-92
401	I:1510714:03B01:G09	MA113:G09		NM_000240	gi 4557734 ref NM_000240.1 Homo sapiens monoamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA	6.3E-264
402	I:2501484:01B01:A03	MA105:A03		AB002438	gi 2943813 dbj AB002438.1AB002438 Homo sapiens mRNA from chromosome 5q21-22, clone:FBR89	1.1E-268
403	I:1379063:01A01:B03	MA103:B03		U28055	gi 1141776 gb U28055.1HSU28055 Homo sapiens hepatocyte growth factor-like protein homolog mRNA, partial cds	0

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
404	I:2797902:01B01:C03	MA105:C03	0.07692	BC019038	gi 17512114 gb BC019038.1BC019038 Homo sapiens, small nuclear RNA activating complex, polypeptide 1, 43kD, clone MGC:20773 IMAGE:45	6.6E-289
405	I:1805613:01B01:G03	MA105:G03		U79725	gi 1814276 gb U79725.1HSU79725 Human A33 antigen precursor mRNA, complete cds	5.4E-202
406	I:1524885:01A01:H03	MA103:H03		Y12065	gi 2230877 emb Y12065.1HSNOP56 Homo sapiens mRNA for nucleolar protein hNop56	0
407	I:2888464:01B01:H03	MA105:H03		S73591	gi 688296 gb S73591.1S73591 Homo sapiens brain-expressed HHCPA78 homolog VDUP1 (Gene) mRNA, complete cds	1.7E-267
408	I:1992788:04B01:B03	MA117:B03		AL161985	gi 7328121 emb AL161985.1HSM8026 09 Homo sapiens mRNA; cDNA DKFZp761J1810 (from clone DKFZp761J1810)	0
409	I:1413451:04A01:F03	MA115:F03		D88648	gi 2653566 dbj D88648.1D88648 Homo sapiens mRNA for B-FABP, complete cds	4.1E-184
410	I:2779515:04B01:C09	MA117:C09		AL136543	gi 6807646 emb AL136543.1HSM8015 17 Homo sapiens mRNA; cDNA DKFZp761K0511 (from clone DKFZp761K0511); partial cds	2.2E-285
411	I:1583076:02B01:G09	MA109:G09		NM_000669	gi 1496888 ref NM_000669.2 Homo sapiens alcohol dehydrogenase 1C (class I), gamma polypeptide (ADH1C), mRNA	6E-261
412	I:3070110:05A02:B03	MA120:B03		AF061016	gi 3127126 gb AF061016.1AF061016 Homo sapiens UDP-glucose dehydrogenase (UGDH) mRNA, complete cds	6.4E-295
413	I:1904493:05A02:H03	MA120:H03		Z22555	gi 397606 emb Z22555.1HSCLA1GNA H.sapiens encoding CLA-1 mRNA	9.7E-229
414	I:2860815:05A02:A09	MA120:A09		AF067420	gi 3201899 gb AF067420.1AF067420 Homo sapiens SNC73 protein (SNC73) mRNA, complete cds	1.7E-100
415	I:1930135:07A02:G03	MA128:G03				
416	I:3747901:06B02:G03	MA126:G03		BC004979	gi 13436403 gb BC004979.1BC004979 Homo sapiens, clone MGC:3855 IMAGE:2905681, mRNA, complete cds	1.6E-289
417	I:1720946:06A02:A09	MA124:A09		BC010733	gi 14789594 gb BC010733.1BC010733 Homo sapiens, clone IMAGE:3897044, mRNA, partial cds	1.1E-296

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
418	I:2877413:06B02:D09	MA126:D09		BC000700	gi 12653822 gb BC000700.1BC000700 Homo sapiens, clone MGC:3101 IMAGE:3350198, mRNA, complete cds	5.5E-255
419	I:3035279:06B02:E09	MA126:E09		BC001125	gi 12654578 gb BC001125.1BC001125 Homo sapiens, peptidylprolyl isomerase B (cyclophilin B), clone MGC:2224 IMAGE:2966791, mRNA, com	2E-276
420	I:2503913:03A02:E09	MA112:E09		BC010952	gi 15012094 gb BC010952.1BC010952 Homo sapiens, Similar to protease inhibitor 3, skin-derived (SKALP), clone MGC:13613 IMAGE:408315	1.5E-261
421	I:1517380:01A02:B03	MA104:B03		AB033032	gi 6330486 dbj AB033032.1AB033032 Homo sapiens mRNA for KIAA1206 protein, partial cds	1.2E-277
422	I:3138128:01B02:C03	MA106:C03		D31887	gi 505101 dbj D31887.1HUMORFKG1 P Human mRNA for KIAA0062 gene, partial cds	1E-300
423	I:2453722:01A02:E03	MA104:E03		BC003582	gi 13097770 gb BC003582.1BC003582 Homo sapiens, polymerase (RNA) II (DNA directed) polypeptide F, clone MGC:2669 IMAGE:3546712, mRN	1E-300
424	I:1414260:01A02:A09	MA104:A09		AB002318	gi 2224580 dbj AB002318.1AB002318 Human mRNA for KIAA0320 gene, partial cds	3.4E-284
425	I:2891247:01B02:A09	MA106:A09		D43638	gi 940399 dbj D43638.1HUMMTG8AP Human mRNA for MTG8a protein, complete cds	8.4E-151
426	I:1682176:01A02:F09	MA104:F09		U78556	gi 1688306 gb U78556.1HSU78556 Human cisplatin resistance associated alpha protein (hCRA alpha) mRNA, complete cds	1E-293
427	I:2739076:04A02:D03	MA116:D03		NM_001023	gi 14591915 ref NM_001023.2 Homo sapiens ribosomal protein S20 (RPS20), mRNA	2.1E-248
428	I:1900378:04B02:F03	MA118:F03		AB002363	gi 2224670 dbj AB002363.1AB002363 Human mRNA for KIAA0365 gene, partial cds	3.1E-275
429	I:1603391:04A02:G03	MA116:G03		AF036874	gi 9738910 gb AF036874.1AF036874 Homo sapiens multiple endocrine neoplasia type 1 candidate protein number 18 (HSPF2) mRNA, complet	3.7E-275
430	I:2018222:04A02:C09	MA116:C09		BC008795	gi 14250659 gb BC008795.1BC008795 Homo sapiens, proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protea	2E-192

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
431	I:1327263:04A02:F09	MA116:F09		M25629	gi 186652 gb M25629.1HUMKALX Human kallikrein mRNA, complete cds, clone clone phKK25	1.4E-283
432	I:1734393:02A02:B09	MA108:B09		X73502	gi 406853 emb X73502.1HSENCY20 H. Sapiens mRNA for cytokeratin 20	0
433	I:2190607:02A02:E09	MA108:E09		BC008012	gi 14124971 gb BC008012.1BC008012 Homo sapiens, eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange prote	3.5E-244
434	I:2447969:08A01:E04	MA131:E04	0.16896			
435	I:1753033:08B01:H10	MA133:H10		AL359055	gi 8518180 emb AL359055.1R234443 6 Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 2344436	9.6E-24
436	I:2456393:07B01:E10	MA129:E10		BC005029	gi 13477142 gb BC005029.1BC005029 Homo sapiens, hypothetical protein FLJ10718, clone MGC:12594 IMAGE:4040181, mRNA, complete cds	3.6E-259
437	I:1719920:06B01:A04	MA125:A04	0.13978	BC001903	gi 12804902 gb BC001903.1BC001903 Homo sapiens, Similar to interleukin 10 receptor, beta, clone MGC:2210 IMAGE:3544611, mRNA, compl	1.4E-274
438	I:2927362:06B01:H04	MA125:H04		BC019336	gi 17939560 gb BC019336.1BC019336 Homo sapiens, clone IMAGE:3617778, mRNA, partial cds	0
439	I:4082816:06B01:F10	MA125:F10		BC001365	gi 12655034 gb BC001365.1BC001365 Homo sapiens, ribosomal protein L4, clone MGC:2201 IMAGE:3051487, mRNA, complete cds	6.1E-230
440	I:1803446:03A01:A04	MA111:A04		BC000062	gi 12652632 gb BC000062.1BC000062 Homo sapiens, solute carrier family 1 (neutral amino acid transporter), member 5, clone MGC:1387	1E-300
441	I:1557490:03A01:C04	MA111:C04		BC003560	gi 13097707 gb BC003560.1BC003560 Homo sapiens, ribophorin II, clone MGC:1817 IMAGE:3546673, mRNA, complete cds	0
442	I:1445895:03B01:E10	MA113:E10		BC009196	gi 14327943 gb BC009196.1BC009196 Homo sapiens, phosphatidic acid phosphatase type 2B, clone MGC:15306 IMAGE:3960223, mRNA, complet	3.6E-131
443	I:1336836:01A01:H04	MA103:H04		M32215	gi 307524 gb M32215.1HUMTSHRX Human thyroid stimulatory hormone receptor (TSHR) mRNA, complete cds	1E-300

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
444	I:1802745:01B01:E10	MA105:E10		D42087	gi 576555 dbj D42087.1HUMHA0793 A Human mRNA for KIAA0118 gene, partial cds	8.4E-279
445	I:2503003:01B01:H10	MA105:H10		AF020352	gi 2655054 gb AF020352.1AF020352 Homo sapiens NADH:ubiquinone oxidoreductase 15 kDa IP subunit mRNA, nuclear gene encoding mitochon	1.4E-255
446	I:1655377:10A01:F04	MA64:F04		AK000706	gi 7020960 dbj AK000706.1AK000706 Homo sapiens cDNA FLJ20699 fis, clone KAIA2372	2.7E-210
447	I:1430662:04A01:A04	MA115:A04		AF078035	gi 4322303 gb AF078035.1AF078035 Homo sapiens translation initiation factor IF2 mRNA, complete cds	3.9E-262
448	I:3335055:04A01:G04	MA115:G04		BC004390	gi 13325149 gb BC004390.1BC004390 Homo sapiens, phosphatidylserine synthase 1, clone MGC:10968 IMAGE:3634879, mRNA, complete cds	3.7E-181
449	I:2457671:04B01:B10	MA117:B10		BC000469	gi 12653398 gb BC000469.1BC000469 Homo sapiens, eukaryotic translation initiation factor 3, subunit 7 (zeta, 66/67kD), clone MGC:85	4.3E-299
450	I:1641421:02A01:C10	MA107:C10		S69369	gi 545844 gb S69369.1S69369 PAX3A=transcription factor [human, adult cerebellum, mRNA, 1248 nt]	1.5E-180
451	I:1655225:02B01:E10	MA109:E10		AB002331	gi 2224606 dbj AB002331.1AB002331 Human mRNA for KIAA0333 gene, partial cds	7.1E-273
452	I:1313325:05A02:B04	MA120:B04		U09550	gi 1184036 gb U09550.1HSU09550 Human oviductal glycoprotein mRNA, complete cds	5.2E-283
453	I:1558081:05B02:A10	MA122:A10		NM_004530	gi 11342665 ref NM_004530.1 Homo sapiens matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase) (MMP2	0
454	I:1889191:05A02:H10	MA120:H10		BC001619	gi 12804426 gb BC001619.1BC001619 Homo sapiens, Similar to aldehyde dehydrogenase 5, clone MGC:2230 IMAGE:3356389, mRNA, complete c	1.1E-299
455	I:3495906:07A02:C10	MA128:C10		U19251	gi 2642132 gb U19251.1HSU19251 Homo sapiens neuronal apoptosis inhibitory protein mRNA, complete cds	0
456	I:3704132:03A02:D10	MA112:D10		Z49194	gi 974830 emb Z49194.1HSOBF1 H.sapiens mRNA for oct-binding factor	1.3E-102

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
457	I:1636553:03B02:F10	MA114:F10		AB001895	gi 2588990 dbj AB001895.1AB001895 Homo sapiens mRNA for B120, complete cds	2.8E-130
458	I:1402228:03B02:H10	MA114:H10		BC008588	gi 14250316 gb BC008588.1BC008588 Homo sapiens, Similar to plastin 3 (T isoform), clone IMAGE:3447893, mRNA, partial cds	7.8E-170
459	I:1361963:01A02:B04	MA104:B04		L13616	gi 439874 gb L13616.1HUMFAKX Human focal adhesion kinase (FAK) mRNA, complete cds	2.4E-291
460	I:1510424:01A02:D04	MA104:D04		X04481	gi 34627 cmb X04481.1HSMH3C2R Human mRNA for complement component C2	1E-300
461	I:2918558:01B02:D04	MA106:D04		AF000994	gi 2580573 gb AF000994.1HSAF000994 4 Homo sapiens ubiquitous TPR motif, Y isoform (UTY) mRNA, alternative transcript 3, complete cds	8.8E-285
462	I:1731061:01A02:D10	MA104:D10		BC000418	gi 12653298 gb BC000418.1BC000418 Homo sapiens, ectodermal-neural cortex (with BTB-like domain), clone MGC:8659 IMAGE:2964376, mRNA	1E-300
463	I:2579602:04A02:A04	MA116:A04		BC005128	gi 13477308 gb BC005128.1BC005128 Homo sapiens, ribosomal protein L7a, clone MGC:10607 IMAGE:3938260, mRNA, complete cds	1E-300
464	I:2824181:04B02:A04	MA118:A04		BC004900	gi 13436172 gb BC004900.1BC004900 Homo sapiens, ribosomal protein L13a, clone IMAGE:3545758, mRNA, partial cds	1E-300
465	I:2123183:04A02:B04	MA116:B04		BC001164	gi 12654652 gb BC001164.1BC001164 Homo sapiens, proteasome (prosome, macropain) 26S subunit, non-ATPase, 8, clone MGC:1660 IMAGE:35	2.1E-198
466	I:1958560:04A02:C10	MA116:C10	0.0522	BC016147	gi 16359382 gb BC016147.1BC016147 Homo sapiens, clone MGC:9485 IMAGE:3921259, mRNA, complete cds	1.5E-277
467	I:1447903:04A02:G10	MA116:G10		AK056274	gi 16551627 dbj AK056274.1AK056274 4 Homo sapiens cDNA FLJ31712 fis, clone NT2RI2006445, moderately similar to INSULIN-LIKE GROWTH FA	2.2E-48
468	I:1875576:02A02:E10	MA108:E10		U04897	gi 451563 gb U04897.1HSU04897 Human orphan hormone nuclear receptor RORalpha1 mRNA, complete cds	1.1E-140

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
469	I:1709457:02B02:G10	MA110:G10		X65873	gi 34082 emb X65873.1HSKHCMR H.sapiens mRNA for kinesin (heavy chain)	0
470	I:2155675:08B01:G05	MA133:G05	0.83871			
471	I:1635069:07A01:A05	MA127:A05		D15049	gi 475003 dbj D15049.1HUMSAP1C Homo sapiens mRNA for protein tyrosine phosphatase precursor, complete cds	3.5E-197
472	I:1453445:07A01:G05	MA127:G05	0.07788	BC001784	gi 13937607 gb BC001784.1BC001784 Homo sapiens, Similar to acidic 82 kDa protein mRNA, clone IMAGE:3542384, mRNA	1.2E-265
473	I:3002566:07A01:D11	MA127:D11		D26350	gi 450468 dbj D26350.1HUMHT2I Human mRNA for type 2 inositol 1,4,5-trisphosphate receptor, complete cds	0
474	I:1631511:06A01:C05	MA123:C05		BC001454	gi 12655192 gb BC001454.1BC001454 Homo sapiens, phosphoenolpyruvate carboxykinase 2 (mitochondrial), clone MGC:1492 IMAGE:3138368,	0
475	I:1610523:06A01:H05	MA123:H05		L19183	gi 307154 gb L19183.1HUMMAC30X Human MAC30 mRNA, 3' end	0
476	I:3297656:06B01:E11	MA125:E11		D14530	gi 414348 dbj D14530.1HUMRSPT Human homolog of yeast ribosomal protein S28, complete cds	5E-277
477	I:2509730:06B01:H11	MA125:H11		X91788	gi 1001874 emb X91788.1HSICLNGE N H.sapiens mRNA for Icln protein	0
478	I:2121863:03B01:D05	MA113:D05		BC002738	gi 12803796 gb BC002738.1BC002738 Homo sapiens, cysteine-rich protein 1 (intestinal), clone MGC:3888 IMAGE:3631097, mRNA, complete	6.9E-47
479	I:1413704:03B01:E05	MA113:E05		NM_003903	gi 14110370 ref NM_003903.2 Homo sapiens CDC16 cell division cycle 16 homolog (S. cerevisiae) (CDC16), mRNA	8.5E-254
480	I:1626232:03A01:A11	MA111:A11		AF048700	gi 2935439 gb AF048700.1AF048700 Homo sapiens gastrointestinal peptide (PEC-60) mRNA, complete cds	3.5E-203
481	I:2354446:01B01:B05	MA105:B05		AF131913	gi 4928275 gb AF131913.1AF131913 Homo sapiens alpha-(1,3/1,4)-fucosyltransferase (FT3B) mRNA, complete cds	1.2E-218
482	I:2916753:01B01:E05	MA105:E05		X62534	gi 32332 emb X62534.1HSHMG2 H.sapiens HMG-2 mRNA	3.9E-179

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
483	I:2555034:01A01:A11	MA103:A11	0.09272	U39196	gi 1055027 gb U39196.1HSU39196 Human clone hGIRK1 G-protein coupled inwardly rectifying potassium channel mRNA, complete cds	9.4E-151
484	I:2804190:01B01:D11	MA105:D11		BC004300	gi 13279166 gb BC004300.1BC004300 Homo sapiens, Similar to villin-like, clone MGC:10896 IMAGE:3622951, mRNA, complete cds	2.8E-166
485	I:1814488:01A01:E11	MA103:E11		AF044773	gi 3002950 gb AF044773.1AF044773 Homo sapiens breakpoint cluster region protein 1 (BCRG1) mRNA, complete cds	8.8E-208
486	I:2474163:01B01:E11	MA105:E11		J03037	gi 179771 gb J03037.1HUMCAIIA Human carbonic anhydrase II mRNA, complete cds	1.2E-143
487	I:1402967:01A01:G11	MA103:G11		Y00651	gi 34504 emb Y00651.1HSMCP Human mRNA for membrane cofactor protein	1.5E-227
488	I:2821541:10A01:D11	MA64:D11	0.356			
489	I:2888814:04B01:A05	MA117:A05		Y10806	gi 1808645 emb Y10806.1HSY10806 H.sapiens mRNA for arginine methyltransferase, splice variant, 1316 bp	1E-300
490	I:1451005:04A01:C05	MA115:C05		BC001771	gi 12804688 gb BC001771.1BC001771 Homo sapiens, general transcription factor IIF, polypeptide 2 (30kD subunit), clone MGC:1502 IMAG	3.3E-200
491	I:1457726:04A01:H05	MA115:H05		AK001686	gi 7023098 dbj AK001686.1AK001686 Homo sapiens cDNA FLJ10824 fis, clone NT2RP4001086	3.9E-209
492	I:2883195:04B01:H05	MA117:H05		BC000672	gi 12653772 gb BC000672.1BC000672 Homo sapiens, guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1, clone MG	1E-290
493	I:1603605:04A01:G11	MA115:G11	0.04363	D38305	gi 1580723 dbj D38305.1HUMTOB Human mRNA for Tob, complete cds	1.3E-268
494	I:2832224:04A01:H11	MA115:H11		L09604	gi 177899 gb L09604.1HUMA4 Homo sapiens differentiation-dependent A4 protein mRNA, complete cds	0
495	I:2231364:02A01:A05	MA107:A05		D87469	gi 1665820 dbj D87469.1D87469 Human mRNA for KIAA0279 gene, partial cds	0
496	I:1595081:02B01:F11	MA109:F11		S36219	gi 249623 gb S36219.1S36219 prostaglandin G/H synthase {alternative splicing product} [human, lung fibroblast, clone HCO-T9, mRNA,	1E-300

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
497	I:1877913:05B02:C05	MA122:C05		U51903	gi 1262925 gb U51903.1HSU51903 Human RasGAP-related protein (IQGAP2) mRNA, complete cds	1E-300
498	I:1666130:05B02:F05	MA122:F05		X05790	gi 28535 emb X05790.1HSAGALAR Human mRNA for alpha-galactosidase A (EC 3.2.1-22)	0
499	I:1709995:05B02:H05	MA122:H05		U78525	gi 2558667 gb U78525.1HSU78525 Homo sapiens eukaryotic translation initiation factor (eIF3) mRNA, complete cds	8.3E-279
500	I:3872557:07A02:B05	MA128:B05		NM_000518	gi 13788565 ref NM_000518.3 Homo sapiens hemoglobin, beta (HBB), mRNA	0
501	I:2734906:07A02:E11	MA128:E11		NM_001997	gi 17981709 ref NM_001997.2 Homo sapiens Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed (fox derived);	1.3E-277
502	I:1798585:06A02:B05	MA124:B05		BC008767	gi 14250615 gb BC008767.1BC008767 Homo sapiens, Similar to acyl-Coenzyme A oxidase 1, palmitoyl, clone MGC:1198 IMAGE:3051501, mRNA	0
503	I:1683389:06A02:F05	MA124:F05		BC015335	gi 15929831 gb BC015335.1BC015335 Homo sapiens, immature colon carcinoma transcript 1, clone MGC:21251 IMAGE:4418983, mRNA, complet	0
504	I:1704517:06A02:G05	MA124:G05		BC005820	gi 14710649 gb BC005820.1BC005820 Homo sapiens, clone IMAGE:3937549, mRNA	0
505	I:2792982:06B02:H05	MA126:H05		X71345	gi 405755 emb X71345.1HSTRYIVB H.sapiens mRNA for trypsinogen IV b-form	0
506	I:3511355:06B02:D11	MA126:D11		NM_001002	gi 16933547 ref NM_001002.2 Homo sapiens ribosomal protein, large, P0 (RPLP0), transcript variant 1, mRNA	1E-300
507	I:1738060:03A02:A05	MA112:A05		BC000508	gi 12653472 gb BC000508.1BC000508 Homo sapiens, proteasome (prosome, macropain) subunit, beta type, 1, clone MGC:8505 IMAGE:2822268	1.1E-243
508	I:1810821:03B02:B05	MA114:B05		BC016956	gi 16877417 gb BC016956.1BC016956 Homo sapiens, clone MGC:21520 IMAGE:3900854, mRNA, complete cds	7E-217

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
509	I:2451279:03A02:E05	MA112:E05		BC009868	gi 14602690 gb BC009868.1BC009868 Homo sapiens, replication protein A3 (14kD), clone MGC:16404 IMAGE:3940438, mRNA, complete cds	1.8E-167
510	I:1431166:03B02:E05	MA114:E05		BC010444	gi 14714612 gb BC010444.1BC010444 Homo sapiens, matrilin 2, clone MGC:17281 IMAGE:4215380, mRNA, complete cds	5.5E-230
511	I:2949427:03B02:A11	MA114:A11		BC006794	gi 13905021 gb BC006794.1BC006794 Homo sapiens, Similar to interferon induced transmembrane protein 3 (1-8U), clone MGC:5225 IMAGE:	3.2E-225
512	I:1458366:03B02:E11	MA114:E11		AF009202	gi 2454507 gb AF009202.1AF009202 Homo sapiens YAC clone 136A2 unknown mRNA, 3'untranslated region	3.7E-290
513	I:1525881:03B02:G11	MA114:G11		AF368463	gi 14583005 gb AF368463.1AF368463 Homo sapiens carboxypeptidase M mRNA, complete cds	8.5E-176
514	I:2071473:01A02:E05	MA104:E05		X17567	gi 36512 emb X17567.1HSSNRNPB H.sapiens RNA for snRNP protein B	0
515	I:2481012:01A02:C11	MA104:C11		BC001625	gi 12804436 gb BC001625.1BC001625 Homo sapiens, Similar to for protein disulfide isomerase-related, clone MGC:1259 IMAGE:3537659, m	1.6E-236
516	I:2816931:01B02:C11	MA106:C11		D88827	gi 2342505 dbj D88827.1D88827 Homo sapiens mRNA for zinc finger protein FPM315, complete cds	4.2E-159
517	I:1806769:01B02:F11	MA106:F11		NM_005971	gi 11612675 ref NM_005971.2 Homo sapiens FXYP domain-containing ion transport regulator 3 (FXYP3), transcript variant 1, mRNA	8.8E-242
518	I:2636634:04B02:A11	MA118:A11		L32137	gi 602449 gb L32137.1HUMCOMP Human germline oligomeric matrix protein (COMP) mRNA, complete cds	2.5E-210
519	I:1649959:02B02:E11	MA110:E11		BC002700	gi 12803726 gb BC002700.1BC002700 Homo sapiens, Similar to keratin 7, clone MGC:3625 IMAGE:3610347, mRNA, complete cds	2.5E-254
520	I:1633719:02B02:F11	MA110:F11		J05428	gi 340079 gb J05428.1HUMUDPGTA Human 3,4-catechol estrogen UDP-glucuronosyltransferase mRNA, complete cds	3.8E-290
521	I:1901035:02B02:G11	MA110:G11		AF081513	gi 5725637 gb AF081513.1AF081513 Homo sapiens TGF-beta type secreted signaling protein LEFTYA mRNA, complete cds	1.2E-143

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
522	I:2503879:08B01:C12	MA133:C12		AF150733	gi 7688664 gb AF150733.1AF150733 Homo sapiens AD-014 protein mRNA, complete cds	3.9E-237
523	I:2383065:07B01:B06	MA129:B06		AJ335311	gi 15879729 emb AJ335311.1HSA335311 Homo sapiens genomic sequence surrounding NotI site, clone NR1-WB8C	3.7E-50
524	I:3357245:07A01:F06	MA127:F06		X95073	gi 2879814 emb X95073.1HSTRAXGE N H.sapiens mRNA for translin associated protein X	0
525	I:2832314:07A01:G06	MA127:G06		M26252	gi 338826 gb M26252.1HUMTCBA Human TCB gene encoding cytosolic thyroid hormone-binding protein, complete cds	7.8E-279
526	I:3667096:07A01:D12	MA127:D12		BC003412	gi 13097323 gb BC003412.1BC003412 Homo sapiens, cyclophilin, clone MGC:5016 IMAGE:3451034, mRNA, complete cds	1E-300
527	I:1798283:06A01:D06	MA123:D06		BC016835	gi 16877126 gb BC016835.1BC016835 Homo sapiens, Similar to synaptophysin-like protein, clone MGC:10011 IMAGE:3883697, mRNA, complet	1E-300
528	I:1648206:03A01:B06	MA111:B06		AJ420535	gi 17066399 emb AJ420535.1HSA420535 Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 993611	6.2E-264
529	I:3360476:03B01:B12	MA113:B12		Y08768	gi 1877211 emb Y08768.1HSIL13 H.sapiens mRNA for IL-13 receptor	1.4E-177
530	I:2500511:03B01:C12	MA113:C12		AJ001531	gi 2661423 emb AJ001531.1HSNEUR OTR Homo sapiens mRNA for neurotrypsin	3.9E-265
531	I:1730806:03B01:D12	MA113:D12		AL049705	gi 4678821 emb AL049705.1HS262D1 22 Human gene from PAC 262D12, chromosome 1	7.8E-220
532	I:2479074:01B01:C06	MA105:C06		AF096304	gi 4191395 gb AF096304.1AF096304 Homo sapiens putative sterol reductase SR-1 (TM7SF2) mRNA, complete cds	0
533	I:1635004:01B01:E06	MA105:E06		BC003661	gi 13177786 gb BC003661.1BC003661 Homo sapiens, lectin, galactoside-binding, soluble, 4 (galectin 4), clone MGC:698 IMAGE:2967411,	4.6E-231
534	I:2378569:01B01:G06	MA105:G06		BC000341	gi 12653146 gb BC000341.1BC000341 Homo sapiens, signal sequence receptor, beta (translocon-associated protein beta), clone MGC:8566	8.7E-236

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
535	I:2207849:01A01:D12	MA103:D12		X65019	gi 33792 emb X65019.1HSIL1BRNA H.sapiens mRNA for interleukin-1B converting enzyme	0
536	I:1504554:01A01:F12	MA103:F12	0.1646	U43843	gi 1532120 gb U43843.1HSU43843 Human h-neuro-d4 protein mRNA, complete cds	4.6E-151
537	I:2989991:04B01:A06	MA117:A06		AF400442	gi 15217078 gb AF400442.1AF400442 Homo sapiens pigment epithelium- derived factor (SERPINF1) mRNA, complete cds	1E-300
538	I:2852561:04B01:B06	MA117:B06		J02769	gi 177206 gb J02769.1HUM4F2A Human 4F2 antigen heavy chain mRNA, complete cds	1.4E-255
539	I:2832839:04A01:C12	MA115:C12		NM_006399	gi 5453562 ref NM_006399.1 Homo sapiens basic leucine zipper transcription factor, ATF-like (BATF), mRNA	2.6E-138
540	I:2845548:04B01:E12	MA117:E12		AY034482	gi 15809587 gb AY034482.1 Homo sapiens hnRNP Q2 mRNA, complete cds	3.1E-278
541	I:1251819:02B01:B06	MA109:B06		X78669	gi 469884 emb X78669.1HSERC55R H.sapiens ERC-55 mRNA	9.1E-288
542	I:1672930:02B01:D06	MA109:D06		X83617	gi 620082 emb X83617.1HSRANBP1 H.sapiens mRNA for RanBP1	4.7E-274
543	I:2122820:02B01:E06	MA109:E06		BC001738	gi 12804628 gb BC001738.1BC001738 Homo sapiens, Similar to ubiquitin- conjugating enzyme E2G 2 (homologous to yeast UBC7), clone MGC	3.9E-234
544	I:2174920:02A01:H06	MA107:H06		BC006230	gi 13623260 gb BC006230.1BC006230 Homo sapiens, lysophospholipase-like, clone MGC:10338 IMAGE:3945191, mRNA, complete cds	9.5E-260
545	I:1875994:05B02:E06	MA122:E06		BC002638	gi 12803606 gb BC002638.1BC002638 Homo sapiens, hypothetical protein, clone MGC:3365 IMAGE:3608062, mRNA, complete cds	2.2E-217
546	I:1858644:05A02:G06	MA120:G06		M55268	gi 177837 gb M55268.1HUMA1CKII Human casein kinase II alpha' subunit mRNA, complete cds	3.4E-284
547	I:1700047:06A02:E06	MA124:E06		BC000405	gi 12653272 gb BC000405.1BC000405 Homo sapiens, small nuclear ribonucleoprotein polypeptide A, clone MGC:8567 IMAGE:2822987, mRNA,	1.4E-224
548	I:1718257:06B02:E06	MA126:E06		AF020760	gi 5870864 gb AF020760.2AF020760 Homo sapiens serine protease (OMI) mRNA, complete cds	0

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
549	I:1612306:06A02:F06	MA124:F06		BC002594	gi 12803530 gb BC002594.1BC002594 Homo sapiens, dolichyl-diphosphooligosaccharide-protein glycosyltransferase, clone MGC:2191 IMAGE	4.5E-271
550	I:1637427:06A02:F12	MA124:F12		U31659	gi 1136305 gb U31659.1HSU31659 Human TBP-associated factor TAF1180 mRNA, complete cds	7.5E-217
551	I:2513883:03A02:B12	MA112:B12		X76717	gi 435674 emb X76717.1HSMT1L H.sapiens MT-11 mRNA	2.1E-142
552	I:2645840:01A02:G06	MA104:G06		X97795	gi 1495482 emb X97795.1HSRAD54 H.sapiens mRNA homologous to S. cerevisiae RAD54	1.7E-295
553	I:1737403:01A02:A12	MA104:A12		Z29067	gi 479172 emb Z29067.1HSNEK3R H.sapiens nek3 mRNA for protein kinase	0
554	I:1733522:01B02:H12	MA106:H12		BC017880	gi 17389723 gb BC017880.1BC017880 Homo sapiens, clone MGC:22754 IMAGE:4277855, mRNA, complete cds	7.7E-95
555	RG:160664:10006:E07	MA155:E07		NM_020975	gi 10862702 ref NM_020975.1 Homo sapiens ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirsch	1.7E-298
556	I:747335:16A01:E01	MA87:E01		NM_000985	gi 14591906 ref NM_000985.2 Homo sapiens ribosomal protein L17 (RPL17), mRNA	3.1E-272
557	I:2085191:16A01:H01	MA87:H01		M22612	gi 521215 gb M22612.1HUMTRPSGN A Human pancreatic trypsin 1 (TRY1) mRNA, complete cds	1E-287
558	I:1211126:16A01:E07	MA87:E07		Y13901	gi 2832349 emb Y13901.1HSFGFR4G Homo sapiens FGFR-4 gene	1E-300
559	RG:669310:10010:C01	MA159:C01		BC000833	gi 12654054 gb BC000833.1BC000833 Homo sapiens, clone IMAGE:3455871, mRNA, partial cds	0
560	RG:730402:10010:H01	MA159:H01	0.225	BC000633	gi 12653696 gb BC000633.1BC000633 Homo sapiens, TTK protein kinase, clone MGC:865 IMAGE:3343925, mRNA, complete cds	2.1E-38
561	RG:1047541:10012:C07	MA161:C07		AF156965	gi 5731112 gb AF156965.1AF156965 Homo sapiens translocon-associated protein alpha subunit mRNA, complete cds	0
562	RG:1161753:10012:E07	MA161:E07		X12883	gi 30310 emb X12883.1HSCYKT18 Human mRNA for cytokeratin 18	0
563	I:1218464:17B01:E01	MA93:E01	0.47248			

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
564	I:958633:17B01:G07	MA93:G07		AF267862	gi 12006050 gb AF267862.1AF267862 Homo sapiens DC44 mRNA, complete cds	1.8E-180
565	I:1602726:09B01:B07	MA137:B07	0.45675			
566	RG:205212:10007:B01	MA156:B01		AF069747	gi 4106379 gb AF069747.1AF069747 Homo sapiens MTG8-like protein MTGR1a mRNA, complete cds	6.1E-227
567	RG:207395:10007:B07	MA156:B07		Z74616	gi 1418929 emb Z74616.1HSPPA2ICO H.sapiens mRNA for prepro-alpha2(I) collagen	0
568	I:349535:16B02:G01	MA90:G01	0.19957			
569	I:2323525:16A02:H01	MA88:H01	0.30114			
570	I:1965049:16B02:D07	MA90:D07		AF113007	gi 6642737 gb AF113007.1AF113007 Homo sapiens PRO0066 mRNA, complete cds	4.1E-162
571	I:2054436:16A02:G07	MA88:G07	0.15978			
572	RG:1506197:10013:F01	MA162:F01		NM_052841	gi 17017992 ref NM_052841.2 Homo sapiens serine/threonine kinase 22C (spermiogenesis associated) (STK22C), mRNA	2E-137
573	RG:1871436:10015:G01	MA164:G01		X60489	gi 31099 emb X60489.1HSEF1B Human mRNA for elongation factor-1- beta	0
574	RG:1705470:10015:B07	MA164:B07		L38734	gi 769675 gb L38734.1HUMHTK Homo sapiens hepatoma transmembrane kinase ligand (HTK ligand) mRNA, complete cds	2.1E-282
575	I:546910:17B02:B07	MA94:B07		AK002212	gi 7023953 dbj AK002212.1AK002212 Homo sapiens cDNA FLJ11350 fis, clone Y79AA1001647	3.3E-97
576	I:1799023:09B02:F01	MA138:F01		AK023003	gi 10434717 dbj AK023003.1AK023003 3 Homo sapiens cDNA FLJ12941 fis, clone NT2RP2005116, moderately similar to PUTATIVE EUKARYOTIC TR	2.5E-164
577	I:2380380:09B02:H01	MA138:H01		AF268037	gi 8745546 gb AF268037.1AF268037 Homo sapiens C8ORF4 protein (C8ORF4) mRNA, complete cds	0
578	I:2319269:18A01:F02	MA95:F02		AK022882	gi 10434533 dbj AK022882.1AK022882 2 Homo sapiens cDNA FLJ12820 fis, clone NT2RP2002736	1.1E-206
579	I:2296344:18A01:D08	MA95:D08		AJ387747	gi 6562532 emb AJ387747.1HSA387747 7 Homo sapiens mRNA for sialin	3.6E-225
580	RG:155066:10006:E02	MA155:E02		BC018851	gi 17402989 gb BC018851.1BC018851 Homo sapiens, clone IMAGE:3141444, mRNA	2.2E-279
581	RG:180135:10006:G02	MA155:G02		L37043	gi 852056 gb L37043.1HUMCSNK1E Homo sapiens casein kinase I epsilon mRNA, complete cds	0

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
582	RG:178093:10006:F08	MA155:F08		AL117430	gi 5911865 emb AL117430.1HSM800939 Homo sapiens mRNA; cDNA DKFZp434D156 (from clone DKFZp434D156); partial cds	0
583	RG:184042:10006:G08	MA155:G08		BC017459	gi 16907188 gb BC017459.1BC017459 Homo sapiens, clone IMAGE:4645230, mRNA	5.3E-240
584	I:1741643:16A01:A02	MA87:A02		D38551	gi 1531549 dbj D38551.1HUMORF005 Human mRNA for KIAA0078 gene, complete cds	1.1E-209
585	RG:928026:10012:B02	MA161:B02		AL050147	gi 4884153 emb AL050147.1HSM800223 Homo sapiens mRNA; cDNA DKFZp586E0820 (from clone DKFZp586E0820); partial cds	1.3E-218
586	RG:1032969:10012:C02	MA161:C02		AF261717	gi 8926204 gb AF261717.1AF261717 Homo sapiens SAR1 (SAR1) mRNA, complete cds	0
587	RG:1322660:10012:H02	MA161:H02		L05144	gi 189944 gb L05144.1HUMPHOCAR Homo sapiens (clone lamda-hPEC-3) phosphoenolpyruvate carboxykinase (PCK1) mRNA, complete cds	5.3E-283
588	RG:968474:10012:B08	MA161:B08		Y11339	gi 7576275 emb Y11339.2HSY11339 Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase I, long form	1.7E-227
589	RG:1047592:10012:C08	MA161:C08		X05803	gi 34080 emb X05803.1HSKERUV Human radiated keratinocyte mRNA 266 (keratin-related protein)	1E-300
590	I:617750:17B01:E08	MA93:E08	0.19395			
591	I:2808775:09B01:G02	MA137:G02	0.40171			
592	I:966692:18A02:B08	MA96:B08	0.32029	AK055949	gi 16550804 dbj AK055949.1AK055949 Homo sapiens cDNA FLJ31387 fis, clone NT2NE1000018, weakly similar to SUPPRESSOR PROTEIN SRP40	3.7E-123
593	RG:209240:10007:C02	MA156:C02		BC001737	gi 12804626 gb BC001737.1BC001737 Homo sapiens, clone IMAGE:3354010, mRNA, partial cds	3E-192
594	RG:223355:10007:D02	MA156:D02		Z11696	gi 23882 emb Z11696.1HS44KDAP H.sapiens 44kDa protein kinase related to rat ERK1	5.4E-252
595	RG:267629:10007:H02	MA156:H02		U73824	gi 1857236 gb U73824.1HSU73824 Human p97 mRNA, complete cds	3.2E-269
596	I:2246234:16B02:C08	MA90:C08				
597	RG:1696513:10015:B02	MA164:B02	0.07275	AF377330	gi 14278713 gb AF377330.2AF377330 Homo sapiens urokinase-type plasminogen activator (PLAU) gene, complete cds	0

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
598	RG:1733895:10015:D0 2	MA164:D02		BC009470	gi 14495716 gb BC009470.1BC009470 Homo sapiens, protein kinase, interferon-inducible double stranded RNA dependent activator, clone	0
599	RG:1353930:10013:A08	MA162:A08		U86453	gi 2317893 gb U86453.1HSU86453 Human phosphatidylinositol 3-kinase catalytic subunit p110delta mRNA, complete cds	6.4E-295
600	RG:1881947:10015:G0 8	MA164:G08		BC005858	gi 13543399 gb BC005858.1BC005858 Homo sapiens, clone MGC:3255 IMAGE:3506187, mRNA, complete cds	0
601	RG:166575:10006:F03	MA155:F03		AK057849	gi 16553810 dbj AK057849.1AK05784 9 Homo sapiens cDNA FLJ25120 fis, clone CBR06020	1E-300
602	I:1998994:16A01:A03	MA87:A03		J04205	gi 178686 gb J04205.1HUMANTLAA Human La protein mRNA, complete cds	1.6E-258
603	I:1953051:16A01:D03	MA87:D03		BC004138	gi 13278716 gb BC004138.1BC004138 Homo sapiens, ribosomal protein L6, clone MGC:1635 IMAGE:2823733, mRNA, complete cds	2E-276
604	I:518826:16A01:E03	MA87:E03		BC007771	gi 14043585 gb BC007771.1BC007771 Homo sapiens, dual specificity phosphatase 2, clone MGC:12703 IMAGE:4297852, mRNA, complete cds	2.8E-266
605	I:81490:16A01:B09	MA87:B09		BC007942	gi 14044027 gb BC007942.1BC007942 Homo sapiens, nucleolar autoantigen (55kD) similar to rat synaptonemal complex protein, clone MGC	1.9E-270
606	RG:1256163:10012:F03	MA161:F03		M36501	gi 177871 gb M36501.1HUMA2MGL Human alpha-2-macroglobulin mRNA, 3' end	1E-300
607	RG:1132085:10012:D0 9	MA161:D09		BC006510	gi 13676353 gb BC006510.1BC006510 Homo sapiens, Similar to cyclin B1, related sequence 1, clone MGC:2548 IMAGE:2963100, mRNA, compl	0
608	I:2132717:17B01:C09	MA93:C09		AB058749	gi 14017908 dbj AB058749.1AB05874 9 Homo sapiens mRNA for KIAA1846 protein, partial cds	3.8E-256
609	I:1998428:17B01:F09	MA93:F09		AF115926	gi 17998664 gb AF115926.1AF115926 Homo sapiens XAG-2 homolog long protein (HPC8) mRNA, complete cds	6.9E-208
610	RG:206694:10007:B03	MA156:B03		X00588	gi 31113 cmb X00588.1HSEGFPRE Human mRNA for precursor of epidermal growth factor receptor	1E-300

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
611	RG:261714:10007:F09	MA156:F09		AF116618	gi 7959738 gb AF116618.1AF116618 Homo sapiens PRO1038 mRNA, complete cds	0
612	I:1461515:16A02:C03	MA88:C03	0.3525			
613	I:338859:16A02:H03	MA88:H03	0.27273			
614	I:1425861:16A02:G09	MA88:G09	0.4929			
615	I:1928644:16B02:H09	MA90:H09	0.34967	AK055711	gi 16550506 dbj AK055711.1AK055711 Homo sapiens cDNA FLJ31149 fis, clone IMR322001491, moderately similar to Rattus norvegicus tric	7.1E-131
616	RG:1404414:10013:C03	MA162:C03		U01038	gi 393016 gb U01038.1HSU01038 Human pLK mRNA, complete cds	6.5E-277
617	RG:1415437:10013:D03	MA162:D03		BC001190	gi 12654700 gb BC001190.1BC001190 Homo sapiens, Similar to creatine kinase, brain, clone MGC:3160 IMAGE:3354679, mRNA, complete cds	0
618	RG:1734353:10015:D03	MA164:D03		BC002555	gi 12803460 gb BC002555.1BC002555 Homo sapiens, CDC-like kinase 3, clone MGC:1777 IMAGE:3138580, mRNA, complete cds	0
619	RG:1872251:10015:G03	MA164:G03		Y17151	gi 4826562 emb Y17151.2HSY17151 Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)	1.7E-31
620	RG:1354408:10013:A09	MA162:A09		AF257466	gi 8453155 gb AF257466.1AF257466 Homo sapiens N-acetylneuraminic acid phosphate synthase mRNA, complete cds	3.7E-290
621	RG:1690198:10015:A09	MA164:A09		X90563	gi 1480099 emb X90563.1HSPARGA M H.sapiens mRNA for peroxisome proliferator activated receptor gamma	0
622	RG:1476452:10013:E09	MA162:E09		BC007276	gi 13938296 gb BC007276.1BC007276 Homo sapiens, Similar to heat shock cognate 71-kd protein, clone MGC:15597 IMAGE:3162067, mRNA, c	1E-300
623	I:2069305:09B02:F03	MA138:F03		BC015139	gi 15929410 gb BC015139.1BC015139 Homo sapiens, clone IMAGE:4040789, mRNA, partial cds	0
624	I:1966067:18B01:H04	MA97:H04		AF062916	gi 3941523 gb AF062916.1AF062916 Arabidopsis thaliana putative transcription factor (MYB92) mRNA, complete cds	3.6E-22
625	I:2128547:18B01:A10	MA97:A10		AF151839	gi 4929630 gb AF151839.1AF151839 Homo sapiens CGI-81 protein mRNA, complete cds	4.6E-268

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
626	RG:149960:10006:D04	MA155:D04		BC017483	gi 17028354 gb BC017483.1BC017483 Homo sapiens, clone IMAGE:3506553, mRNA	3.9E-237
627	RG:171569:10006:F04	MA155:F04		M64174	gi 190734 gb M64174.1HUMPTKJAK 1 Human protein-tyrosine kinase (JAK1) mRNA, complete cds	1E-300
628	RG:178638:10006:F10	MA155:F10		BC004408	gi 13325179 gb BC004408.1BC004408 Homo sapiens, Similar to high-mobility group 20B, clone MGC:11001 IMAGE:3638942, mRNA, complete c	1.1E-225
629	RG:195122:10006:H10	MA155:H10		Z11695	gi 23878 emb Z11695.1HS40KDAP H.sapiens 40 kDa protein kinase related to rat ERK2	4.3E-271
630	I:814216:16A01:F10	MA87:F10		BC006395	gi 13623564 gb BC006395.1BC006395 Homo sapiens, cell division cycle 25B, clone MGC:12797 IMAGE:4135465, mRNA, complete cds	9.3E-254
631	RG:491163:10010:A04	MA159:A04		BC008767	gi 14250615 gb BC008767.1BC008767 Homo sapiens, Similar to acyl-Coenzyme A oxidase 1, palmitoyl, clone MGC:1198 IMAGE:3051501, mRNA	9.3E-232
632	RG:827185:10012:A04	MA161:A04		AK055642	gi 16550422 dbj AK055642.1AK055642 2 Homo sapiens cDNA FLJ31080 fis, clone HSYRA2001615, highly similar to Sus scrofa calcium/calmodu	2.5E-251
633	RG:1129102:10012:D04	MA161:D04		NM_000975	gi 15431289 ref NM_000975.2 Homo sapiens ribosomal protein L11 (RPL11), mRNA	1E-300
634	RG:730938:10010:H04	MA159:H04		BC000580	gi 12653606 gb BC000580.1BC000580 Homo sapiens, clone IMAGE:3162218, mRNA, partial cds	2.1E-254
635	RG:925984:10012:A10	MA161:A10		J03358	gi 339714 gb J03358.1HUMTKFER Human tyrosine kinase (FER) mRNA, complete cds	1.2E-246
636	RG:668442:10010:B10	MA159:B10		X74764	gi 433337 emb X74764.1HSRPTK H.sapiens mRNA for receptor protein tyrosine kinase	0
637	RG:1028911:10012:B10	MA161:B10		U88666	gi 1857943 gb U88666.1HSU88666 Homo sapiens serine kinase SRPK2 mRNA, complete cds	1E-300
638	RG:684866:10010:C10	MA159:C10		X51521	gi 31282 emb X51521.1HSEZRIN Human mRNA for ezrin	1E-293

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
639	RG:1283076:10012:F10	MA161:F10		BC007888	gi 14043894 gb BC007888.1BC007888 Homo sapiens, eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD), clone MGC:1417	0
640	I:627654:17A01:G04	MA91:G04		AF081192	gi 3420798 gb AF081192.1AF081192 Homo sapiens histone H2A.F/Z variant (H2AV) mRNA, complete cds	0
641	I:1833801:17A01:D10	MA91:D10		BC009836	gi 14602636 gb BC009836.1BC009836 Homo sapiens, clone MGC:15133 IMAGE:4098463, mRNA, complete cds	1.9E-270
642	I:961473:17B01:H10	MA93:H10	0.20615	AK024678	gi 10437017 dbj AK024678.1AK024678 Homo sapiens cDNA: FLJ21025 fis, clone CAE06758	2.7E-117
643	I:2556708:09B01:B10	MA137:B10		BC018807	gi 17402954 gb BC018807.1BC018807 Homo sapiens, clone IMAGE:4861487, mRNA	1.6E-55
644	RG:243565:10007:D10	MA156:D10		AF015254	gi 4090840 gb AF015254.1AF015254 Homo sapiens serine/threonine kinase (STK-1) mRNA, complete cds	8.4E-186
645	RG:266649:10007:G10	MA156:G10		AB034951	gi 11526572 dbj AB034951.1AB034951 Homo sapiens HSC54 mRNA for heat shock cognate protein 54, complete cds	1E-300
646	I:2013513:16B02:B04	MA90:B04		AF155913	gi 6435129 gb AF155913.1AF155913 Mus musculus putative E1-E2 ATPase mRNA, complete cds	3.7E-51
647	I:2312442:16A02:B10	MA88:B10	0.38737	AK021945	gi 10433249 dbj AK021945.1AK021945 Homo sapiens cDNA FLJ11883 fis, clone HEMBA1007178	1.9E-131
648	I:2060626:16A02:D10	MA88:D10		AK055800	gi 16550622 dbj AK055800.1AK055800 Homo sapiens cDNA FLJ31238 fis, clone KIDNE2004864	1.1E-191
649	RG:1415858:10013:D04	MA162:D04		D85759	gi 1526445 dbj D85759.1D85759 Homo sapiens mRNA for MNB protein kinase, complete cds	4.8E-271
650	RG:1517435:10013:F04	MA162:F04		X13546	gi 32328 emb X13546.1HSHMG17G Human HMG-17 gene for non-histone chromosomal protein HMG-17	6.7E-292
651	RG:1914716:10015:H04	MA164:H04		X13697	gi 36414 emb X13697.1HSSBLA Human mRNA for ribonucleoprotein SS-B/La	1E-300
652	RG:1354528:10013:A10	MA162:A10		AF197898	gi 6166494 gb AF197898.1AF197898 Homo sapiens nemo-like kinase mRNA, complete cds	6.7E-298

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
653	RG:1706414:10015:B10	MA164:B10		M36501	gi 177871 gb M36501.1HUMA2MGL Human alpha-2-macroglobulin mRNA, 3' end	0
654	I:1998510:17A02:C04	MA92:C04		BC004872	gi 13436100 gb BC004872.1BC004872 Homo sapiens, clone MGC:11034 IMAGE:3677618, mRNA, complete cds	1.4E-252
655	I:899118:17B02:G10	MA94:G10		AK055564	gi 16550323 dbj AK055564.1AK055564 Homo sapiens cDNA FLJ31002 fis, clone HLUNG2000004	4E-159
656	I:2680168:09B02:B04	MA138:B04		AL050071	gi 4884302 emb AL050071.1HSM8003 96 Homo sapiens mRNA; cDNA DKFZp566B0846 (from clone DKFZp566B0846); partial cds	0
657	I:1354558:09B02:E04	MA138:E04		AK054675	gi 16549267 dbj AK054675.1AK054675 Homo sapiens cDNA FLJ30113 fis, clone BNGH42000474	1E-156
658	I:1665871:09B02:F10	MA138:F10		AF288394	gi 12620197 gb AF288394.1AF288394 Homo sapiens Clorf19 mRNA, partial cds	0
659	I:1922084:18B01:C05	MA97:C05		AK000057	gi 7019894 dbj AK000057.1AK000057 Homo sapiens cDNA FLJ20050 fis, clone COL00688	1.3E-246
660	I:2307946:18A01:B11	MA95:B11		BC016150	gi 16740553 gb BC016150.1BC016150 Homo sapiens, Similar to CAP-binding protein complex interacting protein 2, clone IMAGE:3637027,	8.9E-226
661	I:1923572:18B01:C11	MA97:C11		AL049959	gi 4884211 emb AL049959.1HSM8003 04 Homo sapiens mRNA; cDNA DKFZp564K1023 (from clone DKFZp564K1023)	2.3E-154
662	RG:171993:10006:F05	MA155:F05	0.31835	AK057735	gi 16553657 dbj AK057735.1AK057735 5 Homo sapiens cDNA FLJ25006 fis, clone CBL00989	3.9E-142
663	RG:129317:10006:B11	MA155:B11		AF103796	gi 4185795 gb AF103796.1AF103796 Homo sapiens placenta-specific ATP-binding cassette transporter (ABCP) mRNA, complete cds	1E-300
664	RG:153244:10006:D11	MA155:D11		L06139	gi 292823 gb L06139.1HUMTEKRPT K Homo sapiens receptor protein-tyrosine kinase (TEK) mRNA, complete cds	1.1E-299
665	RG:196236:10006:H11	MA155:H11		AF359246	gi 13991617 gb AF359246.1AF359246 Homo sapiens fibroblast growth factor receptor 4 variant mRNA, complete cds	5E-249

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
666	I:557538:16A01:C11	MA87:C11		BC013142	gi 15341912 gb BC013142.1BC013142 Homo sapiens, interleukin 1, alpha, clone MGC:9225 IMAGE:3875617, mRNA, complete cds	1.1E-240
667	I:782235:16A01:F11	MA87:F11		K01228	gi 180391 gb K01228.1HUMCG1PA1 Human proalpha 1 (I) chain of type I procollagen mRNA (partial)	9E-251
668	RG:1257341:10012:F05	MA161:F05		BC007952	gi 14044057 gb BC007952.1BC007952 Homo sapiens, pyruvate kinase, muscle, clone MGC:14360 IMAGE:4299213, mRNA, complete cds	1E-300
669	RG:727387:10010:G05	MA159:G05		BC001413	gi 13937593 gb BC001413.1BC001413 Homo sapiens, clone IMAGE:3140866, mRNA	0
670	RG:1145235:10012:D11	MA161:D11		BC007540	gi 14043108 gb BC007540.1BC007540 Homo sapiens, clone IMAGE:3609337, mRNA, partial cds	3.4E-71
671	RG:725145:10010:F11	MA159:F11		AJ000512	gi 2463200 emb AJ000512.1HSSGK Homo sapiens sgk gene	8.4E-264
672	RG:740079:10010:H11	MA159:H11		M14505	gi 456426 gb M14505.1HUMCDPK Human (clone PSK-J3) cyclin-dependent protein kinase mRNA, complete cds.,	0
673	I:1873176:09B01:E05	MA137:E05		BC001909	gi 12804912 gb BC001909.1BC001909 Homo sapiens, clone IMAGE:3537447, mRNA, partial cds	0
674	I:2081974:09B01:D11	MA137:D11		AK057078	gi 16552660 dbj AK057078.1AK057078 Homo sapiens cDNA FLJ32516 fis, clone SMINT1000103, highly similar to Homo sapiens ankyrin repea	0
675	I:2107723:18A02:G05	MA96:G05		AK000193	gi 7020116 dbj AK000193.1AK000193 Homo sapiens cDNA FLJ20186 fis, clone COLF0428	1.2E-265
676	RG:207777:10007:B11	MA156:B11		X04714	gi 28779 emb X04714.1HSAPOB10 Human mRNA for apolipoprotein B-100 (apoB-100)	1E-300
677	RG:221172:10007:C11	MA156:C11		M14333	gi 181171 gb M14333.1HUMCSYNA Homo sapiens c-syn protooncogene mRNA, complete cds	2.2E-97
678	I:1968436:16B02:C05	MA90:C05	0.33281			
679	I:2060973:16A02:G11	MA88:G11		AB035384	gi 7619897 dbj AB035384.1AB035384 Homo sapiens mRNA for SRp25 nuclear protein, complete cds	2.6E-291
680	RG:1369494:10013:B05	MA162:B05		AF008552	gi 2979629 gb AF008552.1AF008552 Homo sapiens aurora-related kinase 2 (ARK2) mRNA, complete cds	1E-300
681	RG:1752177:10015:E05	MA164:E05				

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
682	RG:1519327:10013:F05	MA162:F05		X66364	gi 36620 emb X66364.1HSSTHPKE H.sapiens mRNA PSSALRE for serine/threonine protein kinase	0
683	RG:1694569:10015:A11	MA164:A11		X06323	gi 34753 emb X06323.1HSMRL3R Human MRL3 mRNA for ribosomal protein L3 homologue (MRL3 = mammalian ribosome L3)	0
684	RG:1839794:10015:E11	MA164:E11		U28387	gi 881950 gb U28387.1HSU28387 Human hexokinase II pseudogene, complete cds	5.2E-175
685	I:514124:17A02:D05	MA92:D05		AJ420434	gi 17066298 emb AJ420434.1HSA420434 Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 1499812	6.5E-114
686	I:997782:17A02:G05	MA92:G05		AB018346	gi 3882326 dbj AB018346.1AB018346 Homo sapiens mRNA for KIAA0803 protein, partial cds	2.8E-185
687	I:1709364:09B02:F11	MA138:F11		NM_018440	gi 16753228 ref NM_018440.2 Homo sapiens phosphoprotein associated with glycosphingolipid-enriched microdomains (PAG), mRNA	6.4E-180
688	I:2004896:18A01:C06	MA95:C06		AK023512	gi 10435467 dbj AK023512.1AK023512 Homo sapiens cDNA FLJ13450 fis, clone PLACE1003027, highly similar to Homo sapiens mRNA for KIAA	2E-117
689	RG:172982:10006:F06	MA155:F06		D83492	gi 2281007 dbj D83492.1D83492 Homo sapiens mRNA for Eph-family protein, complete cds	0
690	RG:180978:10006:G06	MA155:G06		D83492	gi 2281007 dbj D83492.1D83492 Homo sapiens mRNA for Eph-family protein, complete cds	0
691	RG:129528:10006:B12	MA155:B12		U00238	gi 404860 gb U00238.1U00238 Homo sapiens glutamine PRPP amidotransferase (GPAT) mRNA, complete cds	1.6E-286
692	RG:186511:10006:G12	MA155:G12		AK000250	gi 7020204 dbj AK000250.1AK000250 Homo sapiens cDNA FLJ20243 fis, clone COLF6418, highly similar to NUCL_HUMAN NUCLEOLIN	3.4E-204
693	I:2005910:16B01:B06	MA89:B06		AJ340058	gi 15884476 emb AJ340058.1HSA340058 Homo sapiens genomic sequence surrounding NotI site, clone NR5-ID23C	2.8E-110
694	I:620871:16A01:D06	MA87:D06		BC007422	gi 13938544 gb BC007422.1BC007422 Homo sapiens, acid phosphatase 1, soluble, clone MGC:3499 IMAGE:3027769, mRNA, complete cds	3.5E-250

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
695	I:1920819:16A01:A12	MA87:A12		BC015123	gi 15929378 gb BC015123.1BC015123 Homo sapiens, Similar to retinoblastoma-binding protein 4, clone IMAGE:3686783, mRNA, partial cds	8.2E-276
696	I:990375:16A01:E12	MA87:E12		M10050	gi 182355 gb M10050.1HUMFABPL Human liver fatty acid binding protein (FABP) mRNA, complete cds	1.8E-267
697	I:690313:16A01:G12	MA87:G12		BC017201	gi 16877960 gb BC017201.1BC017201 Homo sapiens, insulin-like growth factor binding protein 7, clone MGC:3699 IMAGE:3632247, mRNA, c	3.8E-200
698	RG:878195:10012:A06	MA161:A06		M83653	gi 179635 gb M83653.1HUMC1PHTY R Homo sapiens cytoplasmic phosphotyrosyl protein phosphatase (clone type 1) complete cds	0
699	RG:687128:10010:D06	MA159:D06		S75546	gi 914097 gb S75546.1S75546 protein kinase PRK1 [human, fetal brain, mRNA, 3001 nt]	1.7E-38
700	I:884855:17B01:D06	MA93:D06		AK055393	gi 16550110 dbj AK055393.1AK055393 Homo sapiens cDNA FLJ30831 fis, clone FEBRA2001989	4E-228
701	I:1218621:17B01:F06	MA93:F06				
702	I:620371:17A01:H06	MA91:H06		BC016472	gi 16741273 gb BC016472.1BC016472 Homo sapiens, clone MGC:17244 IMAGE:4178911, mRNA, complete cds	1E-203
703	I:1681610:09B01:D06	MA137:D06		AK055827	gi 16550653 dbj AK055827.1AK055827 Homo sapiens cDNA FLJ31265 fis, clone KIDNE2006030, moderately similar to Gallus gallus syndesmo	1.3E-124
704	RG:265206:10007:G06	MA156:G06		U25975	gi 984304 gb U25975.1HSU25975 Human serine kinase (hPAK65) mRNA, partial cds	1E-231
705	RG:268073:10007:H06	MA156:H06		AF226044	gi 9295326 gb AF226044.1AF226044 Homo sapiens HSNFRK (HSNFRK) mRNA, complete cds	9.8E-118
706	I:2117221:16A02:F06	MA88:F06	0.22151	AF130089	gi 11493482 gb AF130089.1AF130089 Homo sapiens clone FLB9440 PRO2550 mRNA, complete cds	9.5E-152
707	I:1760693:16B02:G06	MA90:G06				
708	I:776793:16B02:B12	MA90:B12		AF086524	gi 3483869 gb AF086524.1HUMZE04F10 Homo sapiens full length insert cDNA clone ZE04F10	1.5E-283

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
709	RG:1405692:10013:C06	MA162:C06		X60489	gi 31099 emb X60489.1HSEF1B Human mRNA for elongation factor-1-beta	0
710	RG:1707747:10015:B12	MA164:B12		M29536	gi 182066 gb M29536.1HUMELF2 Human translational initiation factor 2 beta subunit (eIF-2-beta) mRNA, complete cds	0
711	RG:1722789:10015:C12	MA164:C12		AF183421	gi 9963780 gb AF183421.1AF183421 Homo sapiens small GTP-binding protein rab22b mRNA, complete cds	0
712	I:2112348:17B02:E06	MA94:E06		AK026529	gi 10439407 dbj AK026529.1AK026529 9 Homo sapiens cDNA: FLJ22876 fis, clone KAT02954, highly similar to AF056183 Homo sapiens WS beta	1.7E-196
713	I:630458:17A02:F06	MA92:F06		AK025537	gi 10438082 dbj AK025537.1AK025537 7 Homo sapiens cDNA: FLJ21884 fis, clone HEP02863	7.2E-211
714	I:901577:17A02:H06	MA92:H06		AK000771	gi 7021067 dbj AK000771.1AK000771 Homo sapiens cDNA FLJ20764 fis, clone COL08503	2.3E-195
715	I:2298081:17B02:E12	MA94:E12		AL080169	gi 5262637 emb AL080169.1HSM800688 Homo sapiens mRNA; cDNA DKFZp434C171 (from clone DKFZp434C171); partial cds	0
716	I:2718565:09B02:H12	MA138:H12		AF207600	gi 9998951 gb AF207600.2AF207600 Homo sapiens ethanolamine kinase (EK11) mRNA, complete cds	3.2E-253
717	M00056237C:E03	MA181:A01	0.8773	U27317	gi 9989705 gb U27317.2HSHSD11K1 Homo sapiens 11 beta-hydroxysteroid dehydrogenase 2 (HSD11B2) gene, complete cds	7.9E-23
718	M00055261C:F04	MA197:E01		NM_033643	gi 16117795 ref NM_033643.1 Homo sapiens ribosomal protein L36 (RPL36), transcript variant 1, mRNA	8.3E-223
719	M00055353D:A04	MA197:D07		BC006794	gi 13905021 gb BC006794.1BC006794 Homo sapiens, Similar to interferon induced transmembrane protein 3 (1-8U), clone MGC:5225 IMAGE:	1.1E-156
720	M00055357B:B10	MA197:H07		BC006794	gi 13905021 gb BC006794.1BC006794 Homo sapiens, Similar to interferon induced transmembrane protein 3 (1-8U), clone MGC:5225 IMAGE:	3E-275
721	M00056386D:H12	MA173:C01		BC007700	gi 14712760 gb BC007700.1BC007700 Homo sapiens, clone IMAGE:3954272, mRNA	6.1E-180

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
722	M00056394B:B04	MA173:D01		BC006791	gi 13905015 gb BC006791.1BC006791 Homo sapiens, ribosomal protein L10a, clone MGC:5203 IMAGE:2901249, mRNA, complete cds	1E-175
723	M00056395A:B04	MA173:E01		BC016835	gi 16877126 gb BC016835.1BC016835 Homo sapiens, Similar to synaptophysin-like protein, clone MGC:10011 IMAGE:3883697, mRNA, complet	4.2E-55
724	M00056396B:G05	MA173:F01		AK026171	gi 10438934 dbj AK026171.1AK026171 Homo sapiens cDNA: FLJ22518 fis, clone HRC12216, highly similar to AF151069 Homo sapiens HSPC235	2.9E-94
725	M00056137A:A05	MA180:G01				
726	M00056401C:C03	MA173:H01		L20688	gi 404044 gb L20688.1HUMLYGDI Human GDP-dissociation inhibitor protein (Ly-GDI) mRNA, complete cds	6.4E-267
727	M00056484A:F06	MA173:E07		NM_003145	gi 6552341 ref NM_003145.2 Homo sapiens signal sequence receptor, beta (translocon-associated protein beta) (SSR2), mRNA	1.3E-252
728	M00056193B:C11	MA180:F07		AF119905	gi 7770246 gb AF119905.1AF119905 Homo sapiens PRO2853 mRNA, complete cds	4.6E-193
729	M00056484B:B07	MA173:G07		AF203815	gi 6979641 gb AF203815.1AF203815 Homo sapiens alpha gene sequence	6.6E-214
730	M00056193B:D06	MA180:G07		AF004162	gi 3046385 gb AF004162.1AF004162 Homo sapiens nickel-specific induction protein (Cap43) mRNA, complete cds	8.3E-201
731	M00056194B:G06	MA180:H07		BC016834	gi 16877123 gb BC016834.1BC016834 Homo sapiens, clone IMAGE:3883264, mRNA, partial cds	2.5E-294
732	M00054633D:B07	MA187:A01		BC018210	gi 17390469 gb BC018210.1BC018210 Homo sapiens, tubulin-specific chaperone a, clone MGC:9129 IMAGE:3861138, mRNA, complete cds	7.9E-279
733	M00054633D:E06	MA187:B01		X52003	gi 311379 emb X52003.1HSPS2MKN H.sapiens pS2 protein gene	3E-275
734	M00054848A:C03	MA189:H01		NM_001010	gi 17158043 ref NM_001010.2 Homo sapiens ribosomal protein S6 (RPS6), mRNA	3.6E-287

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
735	M00054882C:C06	MA189:A07		BC000915	gi 14705283 gb BC000915.2BC000915 Homo sapiens, PDZ and LIM domain 1 (elfin), clone MGC:5344 IMAGE:2985229, mRNA, complete cds	5.3E-283
736	M00054678D:A03	MA187:C07		BC015564	gi 15990405 gb BC015564.1BC015564 Homo sapiens, cold shock domain protein A, clone MGC:12695 IMAGE:4137643, mRNA, complete cds	7.8E-279
737	M00054679B:B03	MA187:D07		BC015642	gi 15990506 gb BC015642.1BC015642 Homo sapiens, Similar to serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteina	4.8E-277
738	M00054680B:D06	MA187:G07		BC009623	gi 16307089 gb BC009623.1BC009623 Homo sapiens, Similar to nucleophosmin (nucleolar phosphoprotein B23, numatrin), clone MGC:17308	8.4E-279
739	M00054680C:A06	MA187:H07		U28387	gi 881950 gb U28387.1HSU28387 Human hexokinase II pseudogene, complete cds	9E-83
740	M00057176B:F11	MA193:B01		BC000419	gi 12653300 gb BC000419.1BC000419 Homo sapiens, catechol-O-methyltransferase, clone MGC:8663 IMAGE:2964400, mRNA, complete cds	1.1E-296
741	M00057181A:D01	MA193:C01		AY008283	gi 15192138 gb AY008283.1 Homo sapiens porimin mRNA, complete cds	4.9E-196
742	M00057219D:B04	MA193:D07		NM_001015	gi 14277698 ref NM_001015.2 Homo sapiens ribosomal protein S11 (RPS11), mRNA	3.4E-175
743	M00042341A:D12	MA167:A01		NM_002153	gi 4504502 ref NM_002153.1 Homo sapiens hydroxysteroid (17-beta) dehydrogenase 2 (HSD17B2), mRNA	8.3E-123
744	M00042433B:G09	MA171:B01		AJ295637	gi 9581767 emb AJ295637.1HSA295637 Homo sapiens mRNA for URIM protein	1.2E-221
745	M00042435A:F08	MA171:D01		BC014048	gi 15559357 gb BC014048.1BC014048 Homo sapiens, clone IMAGE:3348134, mRNA, partial cds	4.6E-122
746	M00042437B:G03	MA171:E01		X59315	gi 33247 emb X59315.1HSIGKL012 H.sapiens gene for Ig kappa light chain variable region "012"	1.5E-119

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
747	M00042525D:E07	MA167:F01		BC005982	gi 13543665 gb BC005982.1BC005982 Homo sapiens, peptidylprolyl isomerase A (cyclophilin A), clone MGC:14681 IMAGE:4109260, mRNA, co	1.4E-105
748	M00042438B:D01	MA171:F01		NM_004063	gi 16507959 ref NM_004063.2 Homo sapiens cadherin 17, LI cadherin (liver-intestine) (CDH17), mRNA	6.1E-264
749	M00042529C:G07	MA167:G01		L02785	gi 291963 gb L02785.1HUMDRA Homo sapiens colon mucosa-associated (DRA) mRNA, complete cds	5.8E-261
750	M00042529D:B12	MA167:H01	0.07368	BC007011	gi 13937818 gb BC007011.1BC007011 Homo sapiens, clone MGC:12335 IMAGE:3686576, mRNA, complete cds	2.1E-145
751	M00042700A:E05	MA167:A07		U07550	gi 469170 gb U07550.1HSU07550 Human chaperonin 10 mRNA, complete cds	4.1E-212
752	M00042777D:G05	MA171:B07		AY007243	gi 12621025 gb AY007243.1 Homo sapiens regenerating gene type IV mRNA, complete cds	6.1E-264
753	M00042781C:F03	MA171:D07		BC016753	gi 16876954 gb BC016753.1BC016753 Homo sapiens, clone MGC:1138 IMAGE:2987963, mRNA, complete cds	3.7E-259
754	M00042783C:F10	MA171:E07	0.80366			
755	M00042702D:B02	MA167:F07		AJ010446	gi 3954892 emb AJ010446.1HSA010446 Homo sapiens mRNA for immunoglobulin kappa light chain,anti-RhD, therad 24	2.8E-154
756	M00042785B:F11	MA171:H07		AF254415	gi 13897565 gb AF254415.1AF254415 Homo sapiens gastrointestinal secretory protein GISP mRNA, complete cds	3.9E-209
757	M00056566C:C03	MA174:A07		NM_031901	gi 16950594 ref NM_031901.2 Homo sapiens mitochondrial ribosomal protein S21 (MRPS21), transcript variant 1, nuclear gene encoding	1.4E-255
758	M00056567B:A09	MA174:C07		BC000396	gi 12653254 gb BC000396.1BC000396 Homo sapiens, ubiquitin-conjugating enzyme E2N (homologous to yeast UBC13), clone MGC:8489 IMAGE:	1E-293
759	M00056569B:D09	MA174:G07		U61267	gi 1418285 gb U61267.1HSU61267 Homo sapiens putative splice factor transformer2-beta mRNA, complete cds	4.4E-243

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
760	M00056571D:E05	MA174:H07		BC017696	gi 17389285 gb BC017696.1BC017696 Homo sapiens, Similar to RIKEN cDNA 2410075D05 gene, clone MGC:21057 IMAGE:4393374, mRNA, complet	6.6E-239
761	RG:376801:10009:C01	MA158:C01		AB017642	gi 4519628 dbj AB017642.1AB017642 Homo sapiens mRNA for oxidative-stress responsive 1, complete cds	8.9E-282
762	RG:365436:10009:B07	MA158:B07		AK022055	gi 10433374 dbj AK022055.1AK022055 5 Homo sapiens cDNA FLJ11993 fis, clone HEMBB1001429, highly similar to Homo sapiens leucine amino	1.1E-290
763	RG:416839:10009:D07	MA158:D07		AK026432	gi 10439295 dbj AK026432.1AK026432 2 Homo sapiens cDNA: FLJ22779 fis, clone KAIA1741	0
764	RG:784224:10011:E07	MA160:E07		L03840	gi 182570 gb L03840.1HUMFGFR4X Human fibroblast growth factor receptor 4 (FGFR4) mRNA, complete cds	7.3E-258
765	RG:796852:10011:G07	MA160:G07		AF087909	gi 10121889 gb AF087909.1AF087909 Homo sapiens NIMA-related kinase 6 (NEK6) mRNA, complete cds	4.4E-271
766	M00043412A:F04	MA184:E01		NM_000993	gi 15812219 ref NM_000993.2 Homo sapiens ribosomal protein L31 (RPL31), mRNA	8.3E-158
767	M00057273B:H10	MA182:H01		AB042820	gi 11041627 dbj AB042820.1AB042820 0 Homo sapiens RPL6 gene for ribosomal protein L6, complete cds	5.6E-41
768	M00054506C:B10	MA184:B07		NM_001012	gi 4506742 ref NM_001012.1 Homo sapiens ribosomal protein S8 (RPS8), mRNA	2.6E-185
769	M00054507D:G03	MA184:F07		U19765	gi 790570 gb U19765.1HSU19765 Human nucleic acid binding protein gene, complete cds	1.5E-221
770	M00054935B:B03	MA198:E01	0.06563	NM_001644	gi 5921993 ref NM_001644.2 Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1 (APOBEC1), transcript variant	1.2E-128
771	M00054935D:C11	MA198:H01		NM_002026	gi 16933541 ref NM_002026.1 Homo sapiens fibronectin 1 (FN1), transcript variant 1, mRNA	1.1E-190
772	M00054976A:E09	MA198:D07		BC017189	gi 16877928 gb BC017189.1BC017189 Homo sapiens, myo-inositol 1-phosphate synthase A1, clone MGC:726 IMAGE:3140452, mRNA, complete c	2.7E-188
773	M00055788B:F08	MA170:C07		V00662	gi 13003 emb V00662.1MIHSXX H.sapiens mitochondrial genome	1.3E-165

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
774	M00055791A:E10	MA170:G07		X01117	gi 57149 emb X01117.1RNRNA06 Rat 18S rRNA sequence	7E-92
775	M00055224C:H11	MA196:E07		BC008952	gi 14286301 gb BC008952.1BC008952 Homo sapiens, lactate dehydrogenase B, clone MGC:3600 IMAGE:3028947, mRNA, complete cds	5E-171
776	M00055932A:C02	MA179:B01		BC019362	gi 17939458 gb BC019362.1BC019362 Homo sapiens, guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1, clone MG	2.1E-226
777	M00056908A:F12	MA177:C01	0.86486			
778	M00055935D:B06	MA179:D01		D17041	gi 598766 dbj D17041.1HUMD3F06M 5 Human HepG2 partial cDNA, clone hmd3f06m5	3.3E-182
779	M00056908D:D08	MA177:E01		AK026649	gi 10439547 dbj AK026649.1AK02664 9 Homo sapiens cDNA: FLJ22996 fis, clone KAT11938	2.3E-154
780	M00055942B:F08	MA179:F01		X98311	gi 1524059 emb X98311.1HSCGM2A NT H.sapiens mRNA for carcinoembryonic antigen family member 2, CGM2	5.9E-196
781	M00056910A:B07	MA177:G01		BC009599	gi 16307042 gb BC009599.1BC009599 Homo sapiens, clone MGC:14690 IMAGE:4134557, mRNA, complete cds	8.3E-254
782	M00056952B:C08	MA177:H07		Z85181	gi 1834892 emb Z85181.1HSZ85181 H.sapiens Ig lambda light chain variable region gene (6-09OIIA61) rearranged; Ig-Light-Lambda; VLam	8E-186
783	M00054728C:E03	MA188:A01		M34664	gi 184411 gb M34664.1HUMHSP60A Human chaperonin (HSP60) mRNA, complete cds	1.3E-283
784	M00054728D:E06	MA188:B01		X16064	gi 37495 emb X16064.1HSTUMP Human mRNA for translationally controlled tumor protein	1E-300
785	M00054731C:H01	MA188:H01		X73502	gi 406853 emb X73502.1HSENCY20 H. Sapiens mRNA for cytokeratin 20	1.9E-267
786	M00054778B:A12	MA188:D07		AJ276249	gi 7362984 emb AJ276249.1HSA27624 9 Homo sapiens partial mRNA, clone c1-10c16	2E-91
787	M00054778C:D08	MA188:F07		NM_002137	gi 14043073 ref NM_002137.2 Homo sapiens heterogeneous nuclear ribonucleoprotein A2/B1 (HNRPA2B1), transcript variant A2, mRNA	1.8E-34

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
788	M00054780A:G06	MA188:H07		BC000035	gi 12652584 gb BC000035.1BC000035 Homo sapiens, CGI-89 protein, clone MGC:845 IMAGE:3506601, mRNA, complete cds	3.6E-287
789	M00042899D:D02	MA168:A01		Y00339	gi 29586 emb Y00339.1HSCA2 Human mRNA for carbonic anhydrase II (EC 4.2.1.1)	1.5E-233
790	M00042831B:G10	MA172:C01		AK024740	gi 10437104 dbj AK024740.1AK024740 Homo sapiens cDNA: FLJ21087 fis, clone CAS03323	6.2E-264
791	M00042833A:G07	MA172:D01		AF047470	gi 2906145 gb AF047470.1AF047470 Homo sapiens malate dehydrogenase precursor (MDH) mRNA, nuclear gene encoding mitochondrial protei	3E-166
792	M00042906D:F05	MA168:E01		L31792	gi 471076 gb L31792.1HUMCGM2A Homo sapiens carcinoembryonic antigen (CGM2) mRNA, complete cds	1.1E-200
793	M00042910C:A02	MA168:G01		AF113700	gi 6855634 gb AF113700.1AF113700 Homo sapiens clone FLB9737	7.6E-245
794	M00042838C:D06	MA172:H01		AK026558	gi 10439440 dbj AK026558.1AK026558 Homo sapiens cDNA: FLJ22905 fis, clone KAT05654, highly similar to HUMRPL18A Homo sapiens riboso	1.7E-214
795	M00042867B:F03	MA172:A07	0.30983	D87666	gi 1620016 dbj D87666.1D87666 Human heart mRNA for heat shock protein 90, partial cds	1.3E-101
796	M00055439B:G05	MA168:B07		AY029066	gi 14017398 gb AY029066.1 Homo sapiens Humanin (HN1) mRNA, complete cds	9.6E-263
797	M00055442D:E12	MA168:F07		BC005354	gi 13529169 gb BC005354.1BC005354 Homo sapiens, ribosomal protein, large P2, clone MGC:12453 IMAGE:4052568, mRNA, complete cds	6.6E-239
798	M00056711D:A02	MA175:B01		Z11566	gi 1066270 emb Z11566.1HSPR22MR H.sapiens mRNA for Pr22 protein	6.7E-133
799	M00056771C:A12	MA175:A07		X02152	gi 34312 emb X02152.1HSLDHAR Human mRNA for lactate dehydrogenase-A (LDH-A, EC 1.1.1.27)	6E-130
800	M00056772D:G07	MA175:C07		NM_001016	gi 14277699 ref NM_001016.2 Homo sapiens ribosomal protein S12 (RPS12), mRNA	1.2E-218
801	M00056782D:E04	MA175:F07		AF346968	gi 13272626 gb AF346968.1AF346968 Homo sapiens mitochondrion, complete genome	3.6E-172

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
802	M00056785D:G01	MA175:G07		NM_001019	gi 14165468 ref NM_001019.2 Homo sapiens ribosomal protein S15a (RPS15A), mRNA	1.5E-230
803	M00056788C:A01	MA175:H07		AY029066	gi 14017398 gb AY029066.1 Homo sapiens Humanin (HN1) mRNA, complete cds	3.5E-287
804	RG:1663880:10014:F07	MA163:F07		BC019315	gi 17939511 gb BC019315.1BC019315 Homo sapiens, N-acetylneuraminic acid phosphate synthase; sialic acid synthase, clone MGC:4339 IM	1E-300
805	M00043310B:D08	MA183:C01		NM_000969	gi 14591908 ref NM_000969.2 Homo sapiens ribosomal protein L5 (RPL5), mRNA	1.5E-261
806	M00054538C:G03	MA185:C01		BC000734	gi 12653884 gb BC000734.1BC000734 Homo sapiens, eukaryotic translation initiation factor 3, subunit 6 (48kD), clone MGC:2060 IMAGE:	4E-234
807	M00043315C:G05	MA183:H01		AK023362	gi 10435266 dbj AK023362.1AK023362 Homo sapiens cDNA FLJ13300 fis, clone OVARC1001342, highly similar to 40S RIBOSOMAL PROTEIN S8	2.7E-241
808	M00055397B:E08	MA199:B01		X06747	gi 36101 emb X06747.1HSRNP A1 Human hnRNP core protein A1	9.7E-132
809	M00056624B:H11	MA186:C01		X56597	gi 31394 emb X56597.1HSFIB Human humFib mRNA for fibrillar	7.7E-192
810	M00055423C:C03	MA199:E07		L01124	gi 307390 gb L01124.1HUMRPS13A Human ribosomal protein S13 (RPS13) mRNA, complete cds	9.1E-154
811	M00056668D:C06	MA186:F07		BC013231	gi 15301504 gb BC013231.1BC013231 Homo sapiens, clone IMAGE:3462987, mRNA	9.8E-263
812	M00056669B:A10	MA186:G07		NM_001025	gi 14790142 ref NM_001025.2 Homo sapiens ribosomal protein S23 (RPS23), mRNA	3.7E-290
813	M00055424A:D01	MA199:G07		BC002362	gi 12803116 gb BC002362.1BC002362 Homo sapiens, lactate dehydrogenase B, clone MGC:8627 IMAGE:2961445, mRNA, complete cds	6.4E-183
814	M00056669B:E07	MA186:H07		NM_002295	gi 9845501 ref NM_002295.2 Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA	9.1E-232
815	M00055424D:F01	MA199:H07		NM_001012	gi 4506742 ref NM_001012.1 Homo sapiens ribosomal protein S8 (RPS8), mRNA	4.4E-190
816	M00056243A:H07	MA181:C02	0.86405			
817	M00056243C:G10	MA181:D02	0.46512			

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
818	M00055528D:H03	MA169:F02	0.6783		gi 6841243 gb AF161415.1AF161415 Homo sapiens HSPC297 mRNA, partial cds	3.5E-253
819	M00055607B:A11	MA169:B08		AF161415		
820	M00055363C:E02	MA197:A08	0.62737		gi 15278200 gb BC013016.1BC013016 Homo sapiens, Similar to ribosomal protein L19, clone MGC:4526 IMAGE:3010178, mRNA, complete cds	3.3E-125
821	M00055373D:H02	MA197:F08		BC013016		
822	M00055374D:E01	MA197:H08		NM_000979	gi 15431298 ref NM_000979.2 Homo sapiens ribosomal protein L18 (RPL18), mRNA	1.5E-261
823	M00056401D:D09	MA173:A02		BC008492	gi 14250147 gb BC008492.1BC008492 Homo sapiens, ribosomal protein L3, clone MGC:14821 IMAGE:4251511, mRNA, complete cds	1.6E-105
824	M00056139D:A10	MA180:B02		X16356	gi 37203 emb X16356.1HSTM3CEA Human mRNA for transmembrane carcinoembryonic antigen BGPC (part.) (formerly TM3-CEA)	3.9E-237
825	M00056140A:E11	MA180:D02		U96628	gi 2343084 gb U96628.1HSU96628 Homo sapiens nuclear antigen H731-like protein mRNA, complete cds	2.4E-182
826	M00056142D:A08	MA180:E02		BC015958	gi 16358989 gb BC015958.1BC015958 Homo sapiens, clone MGC:15290 IMAGE:3940309, mRNA, complete cds	4.2E-268
827	M00056412D:A09	MA173:F02	0.85039			
828	M00056142D:H11	MA180:F02		AK025078	gi 10437520 dbj AK025078.1AK025078 Homo sapiens cDNA: FLJ21425 fis, clone COL04162	3.8E-120
829	M00056414C:F03	MA173:G02		M29548	gi 181966 gb M29548.1HUMEFIAB Human elongation factor 1-alpha (EF1A) mRNA, partial cds	1.7E-114
830	M00056196A:H09	MA180:B08		D84239	gi 1944351 dbj D84239.1D84239 Homo sapiens mRNA for IgG Fc binding protein, complete cds	2E-251
831	M00056200A:E11	MA180:D08		U14528	gi 549987 gb U14528.1HSU14528 Human sulfate transporter (DTD) mRNA, complete cds	4.3E-299
832	M00056488C:G01	MA173:E08		L08048	gi 184250 gb L08048.1HUMHMG1C Human non-histone chromosomal protein (HMG-1) retropseudogene	3.3E-281
833	M00056200B:B01	MA180:E08		D84239	gi 1944351 dbj D84239.1D84239 Homo sapiens mRNA for IgG Fc binding protein, complete cds	1.5E-233
834	M00056203B:G08	MA180:F08	0.89391			

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
835	M00056493A:F09	MA173:H08		X14831	gi 37199 emb X14831.1HSTM2CEA Human mRNA for transmembrane carcinoembryonic antigen BGPb (formerly TM2-CEA)	4.2E-115
836	M00054640D:D12	MA187:B02	0.89884			
837	M00054643B:F04	MA187:D02	0.66848			
838	M00054643C:D08	MA187:E02		BC000491	gi 12653440 gb BC000491.1BC000491 Homo sapiens, proliferating cell nuclear antigen, clone MGC:8367 IMAGE:2820036, mRNA, complete cd	1.6E-236
839	M00054854D:B06	MA189:F02		M16660	gi 184420 gb M16660.1HUMHSP90 Human 90-kDa heat-shock protein gene, cDNA, complete cds	2.4E-263
840	M00054644B:F02	MA187:G02		BC017414	gi 16924273 gb BC017414.1BC017414 Homo sapiens, Similar to signal recognition particle 9kD, clone IMAGE:4655251, mRNA, partial cds	1.2E-246
841	M00054857A:E08	MA189:G02		BC016753	gi 16876954 gb BC016753.1BC016753 Homo sapiens, clone MGC:1138 IMAGE:2987963, mRNA, complete cds	8.6E-229
842	M00054681D:G03	MA187:B08		BC019360	gi 17939583 gb BC019360.1BC019360 Homo sapiens, clone IMAGE:4025624, mRNA	1E-300
843	M00054682D:F11	MA187:D08	0.13542	AF116637	gi 7959775 gb AF116637.1AF116637 Homo sapiens PRO1489 mRNA, complete cds	3.2E-210
844	M00054684B:C07	MA187:F08		BC001781	gi 12804704 gb BC001781.1BC001781 Homo sapiens, ribosomal protein L44, clone MGC:2064 IMAGE:3353669, mRNA, complete cds	8.6E-176
845	M00057191B:E11	MA193:D02		AK026528	gi 10439405 dbj AK026528.1AK026528 Homo sapiens cDNA: FLJ22875 fis, clone KAT02879	4.6E-274
846	M00057194B:G12	MA193:G02		AF228422	gi 12656020 gb AF228422.1AF228422 Homo sapiens normal mucosa of esophagus specific 1 (NMES1) mRNA, complete cds	1.9E-117
847	M00057222D:G09	MA193:B08		D49400	gi 1395161 dbj D49400.1HUMVATPA SE Homo sapiens mRNA for vacuolar ATPase, complete cds	3.9E-262
848	M00042531B:H03	MA167:A02		M15042	gi 180198 gb M15042.1HUMCEA Human carcinoembryonic antigen mRNA	6.3E-211
849	M00042440C:G04	MA171:A02	0.89441			

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
850	M00042533C:D02	MA167:C02		X56999	gi 37568 emb X56999.1HSUBA52P Human UbA52 placental mRNA for ubiquitin-52 amino acid fusion protein	3.7E-29
851	M00042536D:H05	MA167:E02		AF146019	gi 10197599 gb AF146019.1AF146019 Homo sapiens hepatocellular carcinoma antigen gene 520 mRNA, complete cds	3E-26
852	M00042465B:E04	MA171:E02		BC016732	gi 16876903 gb BC016732.1BC016732 Homo sapiens, thymosin, beta 4, X chromosome, clone MGC:24503 IMAGE:4096207, mRNA, complete cds	5.7E-202
853	M00042537D:F10	MA167:F02		BC000889	gi 12654142 gb BC000889.1BC000889 Homo sapiens, RNA polymerase I 16 kDa subunit, clone MGC:4881 IMAGE:3462906, mRNA, complete cds	1.6E-236
854	M00042467B:B04	MA171:F02		V00572	gi 35434 emb V00572.1HSPGK1 Human mRNA encoding phosphoglycerate kinase	1E-240
855	M00042538D:D12	MA167:G02		X68195	gi 36165 emb X68195.1HSRSPAC H.sapiens genomic DNA of ribosomal RNA intergenic spacer sequence	6.6E-24
856	M00042467B:B08	MA171:G02		U11861	gi 515482 gb U11861.1HSU11861 Human G10 homolog (edg-2) mRNA, complete cds	1.7E-165
857	M00042711B:G09	MA167:B08		AF130094	gi 11493492 gb AF130094.1AF130094 Homo sapiens clone FLC0165 mRNA sequence	3E-207
858	M00042790B:E12	MA171:B08		AF039400	gi 4009457 gb AF039400.1AF039400 Homo sapiens calcium-dependent chloride channel-1 (hCLCA1) mRNA, complete cds	5.9E-261
859	M00042791A:C10	MA171:C08		NM_000147	gi 4503802 ref NM_000147.1 Homo sapiens fucosidase, alpha-L-1, tissue (FUCA1), mRNA	1.3E-252
860	M00042711C:H05	MA167:D08		X16354	gi 37197 emb X16354.1HSTM1CEA Human mRNA for transmembrane carcinoembryonic antigen BGP (formerly TM1-CEA)	2.7E-163
861	M00042801D:B02	MA171:H08		BC002348	gi 12803088 gb BC002348.1BC002348 Homo sapiens, nuclear transport factor 2 (placental protein 15), clone MGC:8327 IMAGE:2819267, mR	4.9E-196

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
862	M00042801D:B02	MA171:H08		BC002348	gi 12803088 gb BC002348.1BC002348 Homo sapiens, nuclear transport factor 2 (placental protein 15), clone MGC:8327 IMAGE:2819267, mR	4.9E-196
863	M00056532A:D09	MA174:C02	0.78082			
864	M00056533D:H04	MA174:E02		AK000070	gi 7019918 dbj AK000070.1AK000070 Homo sapiens cDNA FLJ20063 fis, clone COL01524	3.6E-287
865	M00056575B:C04	MA174:B08		AK000113	gi 7019989 dbj AK000113.1AK000113 Homo sapiens cDNA FLJ20106 fis, clone COL04830	2.4E-263
866	M00056578C:A09	MA174:C08		NM_000988	gi 17017972 ref NM_000988.2 Homo sapiens ribosomal protein L27 (RPL27), mRNA	2.1E-198
867	RG:1862072:20001:D0 8	MA139:D08		X61633	gi 37957 emb X61633.1HSWIGEEEX4 H.sapiens Wilms tumor gene 1, exon 4	9.2E-25
868	RG:1862465:20001:F08	MA139:F08	0.81221			
869	RG:347381:10009:A02	MA158:A02		U38846	gi 1200183 gb U38846.1HSU38846 Human stimulator of TAR RNA binding (SRB) mRNA, complete cds	0
870	RG:417093:10009:D08	MA158:D08	0.08361	M17885	gi 190231 gb M17885.1HUMPPARP0 Human acidic ribosomal phosphoprotein P0 mRNA, complete cds	4.4E-216
871	M00043413B:C04	MA184:A02		AK027437	gi 14042109 dbj AK027437.1AK027437 7 Homo sapiens cDNA FLJ14531 fis, clone NT2RM2000371, weakly similar to POLYRIBONUCLEOTIDE NUCLEOT	5.2E-174
872	M00043502D:C12	MA184:F02		BC000820	gi 12654032 gb BC000820.1BC000820 Homo sapiens, menage a trois 1 (CAK assembly factor), clone MGC:5154 IMAGE:3453943, mRNA, complet	5.2E-252
873	M00057341B:B11	MA182:E08		BC001955	gi 12805002 gb BC001955.1BC001955 Homo sapiens, ribosomal protein S10, clone MGC:4389 IMAGE:2905318, mRNA, complete cds	1.1E-243
874	M00054512A:F11	MA184:G08	0.19488			
875	M00042353A:D05	MA182:H08		BC016352	gi 16741002 gb BC016352.1BC016352 Homo sapiens, small acidic protein, clone MGC:24468 IMAGE:4082845, mRNA, complete cds	2E-123
876	M00054937B:D09	MA198:B02		S79979	gi 1839333 gb S79979.1S79979 ribosomal protein L37 [human, HeLa cells, Genomic/mRNA, 754 nt]	2.8E-75

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
877	M00055797C:H09	MA170:D08		BC009699	gi 16307220 gb BC009699.1BC009699 Homo sapiens, Similar to RNA helicase-related protein, clone MGC:9246 IMAGE:3892441, mRNA, comple	8.2E-226
878	M00055799B:C01	MA170:E08		X01117	gi 57149 emb X01117.1RNRRNA06 Rat 18S rRNA sequence	1.5E-51
879	M00055194C:G12	MA196:D02		BC008062	gi 14165518 gb BC008062.1BC008062 Homo sapiens, basic transcription factor 3, clone MGC:2209 IMAGE:2966788, mRNA, complete cds	7.7E-27
880	M00055233B:D08	MA196:B08	0.55474			
881	M00055966C:D06	MA179:H02				
882	M00056024B:B06	MA179:D08		BC011949	gi 15080385 gb BC011949.1BC011949 Homo sapiens, Similar to carbonic anhydrase II, clone MGC:9006 IMAGE:3863603, mRNA, complete cds	6E-261
883	M00056024C:G04	MA179:E08				
884	M00054737D:F10	MA188:D02		BC018828	gi 17402971 gb BC018828.1BC018828 Homo sapiens, clone IMAGE:3343539, mRNA	3.5E-284
885	M00054780D:C09	MA188:A08		BC007967	gi 14044092 gb BC007967.1BC007967 Homo sapiens, clone MGC:14460 IMAGE:4304670, mRNA, complete cds	2.2E-151
886	M00054787A:E09	MA188:D08		NM_006013	gi 15718685 ref NM_006013.2 Homo sapiens ribosomal protein L10 (RPL10), mRNA	8E-279
887	M00054806B:E11	MA188:E08		AK026650	gi 10439548 dbj AK026650.1AK026650 0 Homo sapiens cDNA: FLJ22997 fis, clone KAT11962, highly similar to HSEF1AC Human mRNA for clonga	1.3E-252
888	M00042913B:C11	MA168:B02		NM_000999	gi 16306562 ref NM_000999.2 Homo sapiens ribosomal protein L38 (RPL38), mRNA	2.4E-182
889	M00042915B:B10	MA168:D02		AK058013	gi 16554011 dbj AK058013.1AK058013 3 Homo sapiens cDNA FLJ25284 fis, clone STM06787, highly similar to 15-HYDROXYPROSTAGLANDIN DEHYDR	2.2E-201
890	M00054792C:E12	MA168:E02		D14530	gi 414348 dbj D14530.1HUMRSPT Human homolog of yeast ribosomal protein S28, complete cds	4.1E-268
891	M00042842A:C01	MA172:G02	0.66829			
892	M00055450A:C09	MA168:H08	0.8			

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
893	M00056804C:D01	MA175:H08		AF126743	gi 5052332 gb AF126743.1AF126743 Homo sapiens DNAJ domain-containing protein MCJ (MCJ) mRNA, complete cds	3.1E-278
894	RG:1647954:10014:D08	MA163:D08		NM_001261	gi 17017983 ref NM_001261.2 Homo sapiens cyclin-dependent kinase 9 (CDC2-related kinase) (CDK9), mRNA	1.9E-273
895	RG:1664311:10014:F08	MA163:F08		X02761	gi 31396 emb X02761.1HSFIB1 Human mRNA for fibronectin (FN precursor)	0
896	RG:1671377:10014:G08	MA163:G08		BC013078	gi 15341811 gb BC013078.1BC013078 Homo sapiens, clone MGC:17534 IMAGE:3459415, mRNA, complete cds	2.8E-297
897	M00043316B:F10	MA183:C02		X16064	gi 37495 emb X16064.1HSTUMP Human mRNA for translationally controlled tumor protein	2.7E-269
898	M00054545B:A03	MA185:D02		AF151048	gi 7106817 gb AF151048.1AF151048 Homo sapiens HSPC214 mRNA, complete cds	4.6E-271
899	M00054545B:B09	MA185:E02	0.07415	X07979	gi 31441 emb X07979.1HSFNRB Human mRNA for integrin beta 1 subunit	1.2E-126
900	M00054575A:B09	MA185:D08		X16064	gi 37495 emb X16064.1HSTUMP Human mRNA for translationally controlled tumor protein	3.2E-278
901	M00043374B:H05	MA183:F08	0.11186	NM_053275	gi 16933545 ref NM_053275.1 Homo sapiens ribosomal protein, large, P0 (RPLP0), transcript variant 2, mRNA	3E-136
902	M00056641A:G11	MA186:F02		BC003352	gi 13097158 gb BC003352.1BC003352 Homo sapiens, tumor protein, translationally-controlled 1, clone MGC:5308 IMAGE:2899964, mRNA, co	3.6E-284
903	M00056642A:D08	MA186:H02	0.78693			
904	M00055403B:B11	MA199:H02		NM_001021	gi 14591913 ref NM_001021.2 Homo sapiens ribosomal protein S17 (RPS17), mRNA	5.8E-180
905	M00056676B:C11	MA186:H08		AF346968	gi 13272626 gb AF346968.1AF346968 Homo sapiens mitochondrion, complete genome	4.6E-165
906	M00055530D:B02	MA169:B03		NM_001012	gi 4506742 ref NM_001012.1 Homo sapiens ribosomal protein S8 (RPS8), mRNA	1.5E-261
907	M00056253A:D06	MA181:C03		BC014166	gi 15559610 gb BC014166.1BC014166 Homo sapiens, clone IMAGE:4549553, mRNA	1.2E-274

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
908	M00056253B:B06	MA181:D03		BC000053	gi 12652614 gb BC000053.1BC000053 Homo sapiens, LPS-induced TNF-alpha factor, clone IMAGE:3506981, mRNA	1.7E-270
909	M00055642D:F09	MA169:D09		AF203815	gi 6979641 gb AF203815.1AF203815 Homo sapiens alpha gene sequence	2.2E-257
910	M00055643A:E09	MA169:E09		J03037	gi 179771 gb J03037.1HUMCAIIA Human carbonic anhydrase II mRNA, complete cds	3E-247
911	M00055643D:E02	MA169:F09		M10050	gi 182355 gb M10050.1HUMFABPL Human liver fatty acid binding protein (FABP) mRNA, complete cds	2.1E-251
912	M00055376D:D08	MA197:B09		D38112	gi 644480 dbj D38112.1HUMMTA Homo sapiens mitochondrial DNA, complete sequence	8.5E-111
913	M00056415C:D02	MA173:B03	0.67751			
914	M00056146D:F05	MA180:B03	0.61693			
915	M00056417A:F02	MA173:C03		Z85099	gi 1834810 emb Z85099.1HSZ85099 H.sapiens Ig lambda light chain variable region gene (3-0101A11) rearranged; Ig-Light-Lambda; VLam	2.7E-31
916	M00056148A:B07	MA180:C03		AK026170	gi 10438933 dbj AK026170.1AK026170 Homo sapiens cDNA: FLJ22517 fis, clone HRC12186	4.8E-134
917	M00056420C:E07	MA173:D03		BC010735	gi 14789596 gb BC010735.1BC010735 Homo sapiens, Similar to eukaryotic translation elongation factor 1 alpha 1, clone MGC:10096 IMAG	3.7E-262
918	M00056150A:E04	MA180:D03	0.82941			
919	M00056421C:H11	MA173:F03		X60489	gi 31099 emb X60489.1HSEF1B Human mRNA for elongation factor-1-beta	3.5E-228
920	M00056150C:A10	MA180:F03		AL360191	gi 8919392 emb AL360191.1HST000237 Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 781354	1.1E-237
921	M00056421D:H05	MA173:G03		BC017338	gi 16878283 gb BC017338.1BC017338 Homo sapiens, fucosidase, alpha-L-1, tissue, clone MGC:29579 IMAGE:4871788, mRNA, complete cds	1.1E-159
922	M00056150C:C04	MA180:G03		AJ276249	gi 7362984 emb AJ276249.1HSA276249 Homo sapiens partial mRNA, clone cl-10e16	1.3E-98

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
923	M00056422B:D11	MA173:H03		BC001289	gi 12654890 gb BC001289.1BC001289 Homo sapiens, Sjogren syndrome antigen B (autoantigen La), clone MGC:5194 IMAGE:3454454, mRNA, co	1.9E-120
924	M00056151C:A12	MA180:H03		X59706	gi 34204 emb X59706.1HSLA1L1IG H.sapiens rearranged Humigla1L1 gene encoding IgG light chain	1.5E-227
925	M00056493C:E06	MA173:A09		AF153608	gi 5231140 gb AF153608.1AF153608 Homo sapiens sin3 associated polypeptide (SAP18) mRNA, complete cds	1.3E-280
926	M00056205D:E03	MA180:A09	0.78241			
927	M00056495A:G10	MA173:B09		M63573	gi 337998 gb M63573.1HUMSCYLP Human secreted cyclophilin-like protein (SCYLP) mRNA, complete cds	4.5E-100
928	M00056206D:B10	MA180:E09		AF001893	gi 2529723 gb AF001893.1BETA2 Human MEN1 region clone epsilon/beta mRNA, 3' fragment	1.1E-35
929	M00056501D:C08	MA173:H09		Y11339	gi 7576275 emb Y11339.2HSY11339 Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase I, long form	1.9E-220
930	M00056209D:H10	MA180:H09	0.08151	J03037	gi 179771 gb J03037.1HUMCAIIA Human carbonic anhydrase II mRNA, complete cds	1.6E-258
931	M00054645B:C12	MA187:B03	0.18868	BC008092	gi 14198047 gb BC008092.1BC008092 Homo sapiens, ribosomal protein, large, P0, clone MGC:9343 IMAGE:3458803, mRNA, complete cds	7.3E-105
932	M00054646A:B10	MA187:C03		BC007097	gi 13937968 gb BC007097.1BC007097 Homo sapiens, tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagena	5.2E-146
933	M00054647D:E01	MA187:G03		NM_001026	gi 14916502 ref NM_001026.2 Homo sapiens ribosomal protein S24 (RPS24), transcript variant 2, mRNA	6.4E-111
934	M00057202C:G06	MA193:E03				
935	M00057202D:C11	MA193:F03		X71973	gi 311699 emb X71973.1HSGPX4 H.sapiens GPx-4 mRNA for phospholipid hydroperoxide glutathione peroxidase	1.3E-26
936	M00042549A:G12	MA167:C03		AF153609	gi 5231142 gb AF153609.1AF153609 Homo sapiens serine/threonine protein kinase sgk mRNA, complete cds	1.8E-120

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
937	M00042549D:F03	MA167:D03		BC011025	gi 15029635 gb BC011025.1BC011025 Homo sapiens, Similar to sorcin, clone MGC:13597 IMAGE:4281626, mRNA, complete cds	6.8E-34
938	M00042551B:D12	MA167:E03		NM_002295	gi 9845501 ref NM_002295.2 Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA	8.3E-226
939	M00042513A:D03	MA171:E03		NM_001002	gi 16933547 ref NM_001002.2 Homo sapiens ribosomal protein, large, P0 (RPLP0), transcript variant 1, mRNA	2.5E-266
940	M00042513D:A12	MA171:F03	0.53205			
941	M00042551D:D12	MA167:H03		Z48514	gi 695600 emb Z48514.1HSXGR4551 H.sapiens XG mRNA (clone R4(551))	2.8E-191
942	M00042717B:D05	MA167:A09	0.47619	X98311	gi 1524059 emb X98311.1HSCGM2A NT H.sapiens mRNA for carcinoembryonic antigen family member 2, CGM2	1.1E-45
943	M00042719D:C09	MA167:B09		L31792	gi 471076 gb L31792.1HUMCGM2A Homo sapiens carcinoembryonic antigen (CGM2) mRNA, complete cds	4.2E-144
944	M00042803C:F11	MA171:C09		M31520	gi 337504 gb M31520.1HUMRPS24A Human ribosomal protein S24 mRNA	7.6E-120
945	M00042805D:D12	MA171:E09		BC004324	gi 13279235 gb BC004324.1BC004324 Homo sapiens, ribosomal protein S16, clone MGC:10931 IMAGE:3628799, mRNA, complete cds	2.4E-263
946	M00042731A:G04	MA167:F09		Z84867	gi 1834578 emb Z84867.1HSZ84867 H.sapiens Ig lambda light chain variable region gene (14-09DPIA215) rearranged; Ig-Light-Lambda; VL	5.8E-113
947	M00042806C:E09	MA171:G09	0.12055	U16738	gi 608516 gb U16738.1HSU16738 Homo sapiens CAG-isl 7 mRNA, complete cds	1.4E-165
948	M00042806D:F08	MA171:H09		Y16241	gi 3378195 emb Y16241.1HSY16241 Homo sapiens mRNA for nebulette	3E-247
949	M00056537A:F05	MA174:C03		NM_021130	gi 10863926 ref NM_021130.1 Homo sapiens peptidylprolyl isomerase A (cyclophilin A) (PPIA), mRNA	5.1E-249
950	M00056537D:A07	MA174:D03		BC019255	gi 17939424 gb BC019255.1BC019255 Homo sapiens, multifunctional polypeptide similar to SAICAR synthetase and AIR carboxylase, clone	2.3E-260
951	RG:1862584:20001:G0	MA139:G03	0.72829			

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
952	M00056585D:D05	MA174:A09		BC007989	gi 14124931 gb BC007989.1BC007989 Homo sapiens, Similar to heat shock 90kD protein 1, alpha, clone IMAGE:3030617, mRNA, partial cds	1.3E-283
953	M00056586C:B08	MA174:B09		BC013873	gi 15530196 gb BC013873.1BC013873 Homo sapiens, Similar to centrin, EF-hand protein, 2, clone MGC:10365 IMAGE:3836808, mRNA, comple	1.2E-184
954	M00056592A:B08	MA174:E09		AB018580	gi 6624210 dbj AB018580.1AB018580 Homo sapiens mRNA for hluPGFS, complete cds	7.8E-251
955	RG:378550:10009:C03	MA158:C03				
956	RG:789040:10011:F09	MA160:F09		M14676	gi 338227 gb M14676.1HUMSLK Human src-like kinase (slk) mRNA, complete cds	1E-300
957	M00057283A:D01	MA182:B03		AF283772	gi 10281741 gb AF283772.2AF283772 Homo sapiens clone TCBAP0781 mRNA sequence	2.5E-266
958	M00043505A:E07	MA184:D03		NM_007209	gi 16117792 ref NM_007209.2 Homo sapiens ribosomal protein L35 (RPL35), mRNA	5.5E-258
959	M00043506B:G10	MA184:G03		BC007945	gi 14044036 gb BC007945.1BC007945 Homo sapiens, ribosomal protein S11, clone MGC:14322 IMAGE:4297932, mRNA, complete cds	1E-197
960	M00043507A:B02	MA184:H03				
961	M00042353C:F02	MA182:A09		NM_001015	gi 14277698 ref NM_001015.2 Homo sapiens ribosomal protein S11 (RPS11), mRNA	3.4E-256
962	M00054516B:A08	MA184:F09		BC004459	gi 13325289 gb BC004459.1BC004459 Homo sapiens, eukaryotic translation initiation factor 4E binding protein 1, clone MGC:4316 IMAGE	5E-280
963	M00054986D:B04	MA198:A09		AJ131712	gi 7576251 emb AJ131712.1HSA131712 2 Homo sapiens mRNA for nucleolar RNA-helicase (noH61 gene)	1.2E-168
964	M00054987C:B10	MA198:B09	0.09792	AF097362	gi 6165617 gb AF097362.1AF097362 Homo sapiens gamma-interferon inducible lysosomal thiol reductase (GILT) mRNA, complete cds	9.1E-139
965	M00054988D:B11	MA198:C09		BC019051	gi 17403061 gb BC019051.1BC019051 Homo sapiens, clone IMAGE:4636237, mRNA	1.8E-192

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
966	M00055743C:G08	MA170:E03		BC018970	gi 17512000 gb BC018970.1BC018970 Homo sapiens, ribosomal protein L11, clone MGC:19586 IMAGE:4337066, mRNA, complete cds	2.8E-216
967	M00055196B:C09	MA196:D03		BC018755	gi 17511806 gb BC018755.1BC018755 Homo sapiens, PDZ and LIM domain 1 (elfin), clone MGC:31954 IMAGE:3610938, mRNA, complete cds	6.7E-242
968	M00055238B:G05	MA196:B09		NM_012423	gi 14591905 ref NM_012423.2 Homo sapiens ribosomal protein L13a (RPL13A), mRNA	3.8E-206
969	M00056207B:H06	MA180:G09	0.89703			
970	M00055966C:G04	MA179:A03		BC008492	gi 14250147 gb BC008492.1BC008492 Homo sapiens, ribosomal protein L3, clone MGC:14821 IMAGE:4251511, mRNA, complete cds	8.2E-282
971	M00056920D:C08	MA177:A03		BC014301	gi 15679985 gb BC014301.1BC014301 Homo sapiens, Similar to enhancer of rudimentary (Drosophila) homolog, clone MGC:1509 IMAGE:35072	8.8E-204
972	M00055969D:D01	MA179:C03	0.16904	X73501	gi 402644 emb X73501.1HSCYTOK20 H.sapiens gene for cytokeratin 20	4E-225
973	M00056055D:F06	MA179:E09		AY011168	gi 12699140 gb AY011168.1 Homo sapiens 16S ribosomal RNA gene, partial sequence; mitochondrial gene for mitochondrial product	5.4E-149
974	M00056956B:G12	MA177:E09	0.87013			
975	M00056060D:C04	MA179:F09		V00710	gi 13683 emb V00710.1MIT1HS Human mitochondrial genes for several tRNAs (Phe, Val, Leu) and 12S and 16S ribosomal RNAs	4E-184
976	M00056061C:H04	MA179:G09		U14528	gi 549987 gb U14528.1HSU14528 Human sulfate transporter (DTD) mRNA, complete cds	3.4E-219
977	M00054743C:E05	MA188:A03		BC001603	gi 12804402 gb BC001603.1BC001603 Homo sapiens, Similar to ribosomal protein L21, clone MGC:2150 IMAGE:3543702, mRNA, complete cds	2.3E-179
978	M00054744C:B02	MA188:B03		NM_033643	gi 16117795 ref NM_033643.1 Homo sapiens ribosomal protein L36 (RPL36), transcript variant 1, mRNA	6.2E-92

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
979	M00054808A:E02	MA188:C09		BC003030	gi 12804340 gb BC003030.1BC003030 Homo sapiens, heat shock 60kD protein 1 (chaperonin), clone MGC:4335 IMAGE:2821157, mRNA, complet	5.5E-174
980	M00054811A:G01	MA188:G09		X90583	gi 1071680 emb X90583.1HSRNATRA P H.sapiens mRNA for rat translocon-associated protein delta homolog	3.9E-184
981	M00054797C:G10	MA168:A03		BC004983	gi 13436415 gb BC004983.1BC004983 Homo sapiens, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	2.1E-148
982	M00042843B:H01	MA172:A03		AF068754	gi 3283408 gb AF068754.1AF068754 Homo sapiens heat shock factor binding protein 1 HSBP1 mRNA, complete cds	7.8E-139
983	M00042844D:D10	MA172:D03		BC000483	gi 12653424 gb BC000483.1BC000483 Homo sapiens, clone MGC:8704 IMAGE:2964733, mRNA, complete cds	2.3E-232
984	M00042845D:A12	MA172:E03		BC008329	gi 14249899 gb BC008329.1BC008329 Homo sapiens, clone MGC:15787 IMAGE:3504130, mRNA, complete cds	8.5E-229
985	M00054800C:H10	MA168:G03		Z85052	gi 1834763 emb Z85052.1HSZ85052 H.sapiens Ig lambda light chain variable region gene (26-34ITIIIF120) rearranged; Ig-Light-Lambda;	9E-167
986	M00054911D:E09	MA168:H03		NM_000969	gi 14591908 ref NM_000969.2 Homo sapiens ribosomal protein L5 (RPL5), mRNA	7.2E-217
987	M00055450A:G03	MA168:A09	0.09821	AF074331	gi 5052074 gb AF074331.1AF074331 Homo sapiens PAPS synthetase-2 (PAPSS2) mRNA, complete cds	6.8E-152
988	M00055456B:H05	MA168:D09	0.79701			
989	M00056733C:D03	MA175:D03		X97336	gi 1666193 emb X97336.1RUMTGEN OM Rhinoceros unicornis complete mitochondrial genome	3.1E-72
990	M00056737D:E08	MA175:H03		D11094	gi 219930 dbj D11094.1HUMMSS1 Human mRNA for MSS1, complete cds	5.9E-230
991	M00056809B:A12	MA175:E09		L42345	gi 1160933 gb L42345.1HUMHLAB44 A Homo sapiens lymphocyte antigen HLA-B*4402 and HLA-B*5101 mRNA, exons 1-7, complete cds	6E-152

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
992	M00056809D:C07	MA175:G09		J03801	gi 187243 gb J03801.1HUMLSZ Human lysozyme mRNA, complete cds with an Alu repeat in the 3' flank	9.3E-207
993	RG:1664308:10014:F09	MA163:F09		AF011497	gi 2286216 gb AF011497.1AF011497 Homo sapiens guanine nucleotide binding protein alpha 11 subunit (G11) mRNA, complete cds	0
994	M00043321A:G07	MA183:B03		D49400	gi 1395161 dbj D49400.1HUMVATPA SE Homo sapiens mRNA for vacuolar ATPase, complete cds	5.1E-280
995	M00054549A:F03	MA185:C03	0.84052			
996	M00043381A:C08	MA183:D09		NM_001012	gi 4506742 ref NM_001012.1 Homo sapiens ribosomal protein S8 (RPS8), mRNA	1.1E-231
997	M00056642B:G03	MA186:A03		BC010952	gi 15012094 gb BC010952.1BC010952 Homo sapiens, Similar to protease inhibitor 3, skin-derived (SKALP), clone MGC:13613 IMAGE:408315	1E-300
998	M00056688C:A07	MA186:H09		D13748	gi 219402 dbj D13748.1HUM4AI Human mRNA for eukaryotic initiation factor 4AI	1E-300
999	M00056257C:G03	MA181:A04		AK054673	gi 16549265 dbj AK054673.1AK054673 Homo sapiens cDNA FLJ30111 fis, clone BNGH42000360, highly similar to 3-KETOACYL-COA THIOLASE MI	3.6E-228
1000	M00055545C:F11	MA169:G04		AY029066	gi 14017398 gb AY029066.1 Homo sapiens Humanin (HN1) mRNA, complete cds	1.4E-258
1001	M00055653C:F04	MA169:C10		M10050	gi 182355 gb M10050.1HUMFABPL Human liver fatty acid binding protein (FABP) mRNA, complete cds	5E-224
1002	M00055653D:F01	MA169:D10		M10050	gi 182355 gb M10050.1HUMFABPL Human liver fatty acid binding protein (FABP) mRNA, complete cds	1.9E-167
1003	M00055385A:C11	MA197:B10		BC013231	gi 15301504 gb BC013231.1BC013231 Homo sapiens, clone IMAGE:3462987, mRNA	2.9E-244
1004	M00056157A:F11	MA180:D04		X74104	gi 452756 emb X74104.1HSSSR H.sapiens mRNA for TRAP beta subunit	4.5E-274
1005	M00056160A:F03	MA180:E04	0.89209			
1006	M00056426A:H07	MA173:F04	0.49541			
1007	M00056214C:B04	MA180:C10		Y00339	gi 29586 emb Y00339.1HSCA2 Human mRNA for carbonic anhydrase II (EC 4.2.1.1)	3E-222
1008	M00056216A:F10	MA180:D10	0.75335			

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1009	M00056507A:G11	MA173:G10	0.71615		gi 13278665 gb BC004113.1BC004113 Homo sapiens, Similar to non-POU-domain-containing, octamer-binding, clone IMAGE:3835400, mRNA, p	1.6E-236
1010	M00054648C:C10	MA187:A04		BC004113		
1011	M00054862A:H11	MA189:A04	0.60181			
1012	M00054648D:F12	MA187:B04		BC001118	gi 12654566 gb BC001118.1BC001118 Homo sapiens, Similar to seven transmembrane domain protein, clone MGC:1936 IMAGE:2989840, mRNA, gi 5931601 dbj AB026723.1AB026723 Homo sapiens SID6-8061 mRNA for pyrophosphatase, complete cds	1.5E-289
1013	M00054650C:H08	MA187:D04		AB026723		1.6E-295
1014	M00054868C:C11	MA189:H04	0.09703			
1015	M00054700C:E02	MA187:D10		BC000530	gi 12653516 gb BC000530.1BC000530 Homo sapiens, ribosomal protein L19, clone MGC:8653 IMAGE:2961653, mRNA, complete cds	2.9E-244
1016	M00054902D:G11	MA189:F10	0.71088			
1017	M00054903B:G06	MA189:G10		BC013231	gi 15301504 gb BC013231.1BC013231 Homo sapiens, clone IMAGE:3462987, mRNA	1.1E-240
1018	M00054706A:D05	MA187:H10		AB060236	gi 13676490 dbj AB060236.1AB060236 6 Macaca fascicularis brain cDNA clone:QflA-11918, full insert sequence	6.9E-71
1019	M00057207A:D05	MA193:C04		AF127763	gi 6138993 gb AF127763.2AF127763 Homo sapiens mitogenic oxidase mRNA, complete cds	2.7E-297
1020	M00057207C:F06	MA193:D04		BC016756	gi 16876963 gb BC016756.1BC016756 Homo sapiens, glutathione peroxidase 2 (gastrointestinal), clone IMAGE:3681457, mRNA	9.4E-291
1021	M00057208B:F11	MA193:F04		X60489	gi 31099 emb X60489.1HSEF1B Human mRNA for elongation factor-1-beta	8E-279
1022	M00057242B:B10	MA193:C10		J03464	gi 179595 gb J03464.1HUMC1A2 Human collagen alpha-2 type I mRNA, complete cds, clone pHCOL2A1	2.1E-282
1023	M00042555A:E06	MA167:C04	0.79249			
1024	M00042561A:H03	MA167:D04		AK057546	gi 16553292 dbj AK057546.1AK057546 6 Homo sapiens cDNA FLJ32984 fis, clone THYMU1000017, highly similar to Homo sapiens splice varian	3.1E-278

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1025	M00042756C:E10	MA171:E04		NM_005348	gi 13129149 ref NM_005348.1 Homo sapiens heat shock 90kD protein 1, alpha (HSPCA), mRNA	3E-222
1026	M00042758D:F01	MA171:F04		NM_000969	gi 14591908 ref NM_000969.2 Homo sapiens ribosomal protein L5 (RPL5), mRNA	3.7E-259
1027	M00042759B:E02	MA171:H04		BC000077	gi 12652658 gb BC000077.1 BC000077 Homo sapiens, ribosomal protein L8, clone MGC:3253 IMAGE:3506015, mRNA, complete cds	5.1E-252
1028	M00042808D:D03	MA171:B10		AB048207	gi 15425668 dbj AB048207.1 AB048207 7 Homo sapiens mRNA for TIGA1, complete cds	2.2E-257
1029	M00042808D:D10	MA171:C10		AK026166	gi 10438929 dbj AK026166.1 AK026166 6 Homo sapiens cDNA: FLJ22513 fis, clone HRC12111, highly similar to HUMKUP Human Ku (p70/p80) sub	9.5E-263
1030	M00042811B:A05	MA171:D10		AK027191	gi 10440260 dbj AK027191.1 AK027191 1 Homo sapiens cDNA: FLJ23538 fis, clone LNG08010, highly similar to BETA2 Human MEN1 region clone	1.6E-121
1031	M00042746B:F05	MA167:E10		AK026528	gi 10439405 dbj AK026528.1 AK026528 8 Homo sapiens cDNA: FLJ22875 fis, clone KAT02879	1.6E-77
1032	M00042746C:D01	MA167:G10		BC000551	gi 12653554 gb BC000551.1 BC000551 Homo sapiens, lysophospholipase-like, clone MGC:1216 IMAGE:3163689, mRNA, complete cds	5E-128
1033	M00042812D:B04	MA171:G10		NM_000978	gi 14591907 ref NM_000978.2 Homo sapiens ribosomal protein L23 (RPL23), mRNA	3.5E-256
1034	M00056546B:F12	MA174:A04		AK026570	gi 10439452 dbj AK026570.1 AK026570 0 Homo sapiens cDNA: FLJ22917 fis, clone KAT06430	2.1E-226
1035	M00056550A:G09	MA174:H04		X14420	gi 30057 emb X14420.1 HSCOL3A1 Human mRNA for pro-alpha-1 type 3 collagen	5.1E-165
1036	M00056610C:B08	MA174:G10		D87667	gi 1620019 dbj D87667.1 D87667 Human brain mRNA homologous to 3'UTR of human CD24 gene, partial sequence	1.4E-199
1037	RG:745556:10011:B04	MA160:B04		AK056676	gi 16552146 dbj AK056676.1 AK056676 6 Homo sapiens cDNA FLJ32114 fis, clone OCBBF2001706	8.7E-227

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1038	RG:446537:10009:G04	MA158:G04		BC001430	gi 12655150 gb BC001430.1BC001430 Homo sapiens, POP7 (processing of precursor, S. cerevisiae) homolog, clone MGC:1986 IMAGE:3138336	0
1039	RG:375937:10009:B10	MA158:B10		BC010153	gi 14603405 gb BC010153.1BC010153 Homo sapiens, cyclin-dependent kinase 4, clone MGC:19704 IMAGE:3531300, mRNA, complete cds	1.1E-77
1040	RG:755120:10011:B10	MA160:B10		BC016725	gi 16876888 gb BC016725.1BC016725 Homo sapiens, 60S ribosomal protein L30 isolog, clone MGC:24451 IMAGE:4078305, mRNA, complete cds	3.5E-52
1041	RG:781108:10011:D10	MA160:D10				
1042	M00042450C:H10	MA182:A10		S56985	gi 298485 gb S56985.1S56985 ribosomal protein L19 [human, breast cancer cell line, MCF-7, mRNA, 690 nt]	1.4E-258
1043	M00042451B:B05	MA182:B10		BC013231	gi 15301504 gb BC013231.1BC013231 Homo sapiens, clone IMAGE:3462987, mRNA	1.7E-239
1044	M00054517D:D12	MA184:B10		NM_000661	gi 15431302 ref NM_000661.2 Homo sapiens ribosomal protein L9 (RPL9), mRNA	1E-156
1045	M00055002B:G06	MA198:D10		J04164	gi 177801 gb J04164.1HUM927A Human interferon-inducible protein 9-27 mRNA, complete cds	1.5E-177
1046	M00055749A:C09	MA170:B04	0.08723	M36532	gi 179794 gb M36532.1HUMCA1Z Human carbonic anhydrase II mRNA, complete cds	1.8E-236
1047	M00055750A:F10	MA170:D04		X57809	gi 33714 emb X57809.1HSIGVL009 Human rearranged immunoglobulin lambda light chain mRNA	4.1E-178
1048	M00055757A:H06	MA170:G04		M12759	gi 532596 gb M12759.1HUMIGJ02 Human Ig J chain gene, exons 3 and 4	2.6E-104
1049	M00055200B:F03	MA196:D04		AK056446	gi 16551850 dbj AK056446.1AK056446 Homo sapiens cDNA FLJ31884 fis, clone NT2RP7002906, highly similar to HEAT SHOCK PROTEIN HSP 90-	2.3E-232
1050	M00055203B:F05	MA196:F04		NM_000979	gi 15431298 ref NM_000979.2 Homo sapiens ribosomal protein L18 (RPL18), mRNA	3.8E-262
1051	M00055980B:F12	MA179:E04		AK000140	gi 7020034 dbj AK000140.1AK000140 Homo sapiens cDNA FLJ20133 fis, clone COL06539	6.8E-270
1052	M00056066C:H10	MA179:B10	0.89137			

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1053	M00056067B:F12	MA179:C10		BC011836	gi 15080121 gb BC011836.1BC011836 Homo sapiens, clone IMAGE:3945177, mRNA	7.1E-273
1054	M00056075D:H10	MA179:D10		AK027140	gi 10440192 dbj AK027140.1AK027140 Homo sapiens cDNA: FLJ23487 fis, clone LNG00423	3.3E-200
1055	M00056962D:A05	MA177:D10		BC017366	gi 16924194 gb BC017366.1BC017366 Homo sapiens, clone MGC:1191 IMAGE:3506054, mRNA, complete cds	2.4E-91
1056	M00056081D:B09	MA179:E10		AF346964	gi 13272570 gb AF346964.1AF346964 Homo sapiens mitochondrion, complete genome	1.9E-93
1057	M00056963A:E01	MA177:E10		BC000999	gi 12803040 gb BC000999.2BC000999 Homo sapiens, Similar to transforming, acidic coiled-coil containing protein 2, clone IMAGE:29849	1.9E-276
1058	M00056081D:C02	MA179:F10		V00710	gi 13683 emb V00710.1MITIHS Human mitochondrial genes for several tRNAs (Phe, Val, Leu) and 12S and 16S ribosomal RNAs	1.3E-97
1059	M00056964D:C08	MA177:G10		M36072	gi 337494 gb M36072.1HUMRPL7A Human ribosomal protein L7a (surf 3) large subunit mRNA, complete cds	1.8E-245
1060	M00056084A:B08	MA179:H10		U67963	gi 1763010 gb U67963.1HSU67963 Human lysophospholipase homolog (HU-K5) mRNA, complete cds	2.3E-136
1061	M00054750C:G08	MA188:B04		BC001125	gi 12654578 gb BC001125.1BC001125 Homo sapiens, peptidylprolyl isomerase B (cyclophilin B), clone MGC:2224 IMAGE:2966791, mRNA, com	1.1E-190
1062	M00054750D:F04	MA188:C04		U30246	gi 903681 gb U30246.1HSU30246 Human bumetanide-sensitive Na-K-Cl cotransporter (NKCC1) mRNA, complete cds	3E-247
1063	M00054757A:F05	MA188:G04		U86602	gi 1835785 gb U86602.1HSU86602 Human nucleolar protein p40 mRNA, complete cds	1E-300
1064	M00054760D:B10	MA188:H04		BC014788	gi 15928638 gb BC014788.1BC014788 Homo sapiens, guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1, clone MG	1E-300
1065	M00042847A:A04	MA172:A04		M61831	gi 178276 gb M61831.1HUMAHCY Human S-adenosylhomocysteine hydrolase (AHCY) mRNA, complete cds	5.5E-230

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1066	M00042847A:D10	MA172:B04	0.82393		gi 177801 gb J04164.1HUM927A Human interferon-inducible protein 9-27 mRNA, complete cds	
1067	M00054917B:G02	MA168:F04		J04164		6.4E-239
1068	M00055468D:D05	MA168:C10		BC001781	gi 12804704 gb BC001781.1BC001781 Homo sapiens, ribosomal protein L44, clone MGC:2064 IMAGE:3353669, mRNA, complete cds	2.2E-173
1069	M00055469B:E11	MA168:D10	0.52048	U07969	gi 483391 gb U07969.1HSU07969 Human intestinal peptide-associated transporter HPT-1 mRNA, complete cds	7.2E-103
1070	M00055492C:C01	MA168:G10		BC003394	gi 13097278 gb BC003394.1BC003394 Homo sapiens, heterogeneous nuclear ribonucleoprotein C (C1/C2), clone MGC:5418 IMAGE:3447724, mR	3.2E-253
1071	M00055496A:E06	MA168:H10	0.86834			
1072	M00056742D:D01	MA175:F04		U51924	gi 1263307 gb U51924.1HSU51924 Human phosphatase 2A inhibitor I2PP2A mRNA, complete cds	1.3E-199
1073	M00056814D:C08	MA175:G10		BC000472	gi 12653404 gb BC000472.1BC000472 Homo sapiens, ribosomal protein S4, X-linked, clone MGC:8636 IMAGE:2961540, mRNA, complete cds	2.4E-291
1074	RG:1636303:10014:B10	MA163:B10		AJ338808	gi 15883226 emb AJ338808.1HSA338808 Homo sapiens genomic sequence surrounding NotI site, clone NRI-QA13R	0
1075	RG:1643142:10014:C10	MA163:C10		U14528	gi 549987 gb U14528.1HSU14528 Human sulfate transporter (DTD) mRNA, complete cds	5.6E-138
1076	RG:1650444:10014:D10	MA163:D10		D10040	gi 219899 dbj D10040.1HUMLCACS Homo sapiens mRNA for long-chain acyl-CoA synthetase, complete cds	0
1077	RG:1418984:10003:H10	MA152:H10		X52967	gi 36139 emb X52967.1HSRPL7 Human mRNA for ribosomal protein L7	1E-300
1078	M00043339C:C12	MA183:A04		X60489	gi 31099 emb X60489.1HSEF1B Human mRNA for elongation factor-1-beta	7E-270
1079	M00043342C:H03	MA183:B04		AK026558	gi 10439440 dbj AK026558.1AK026558 Homo sapiens cDNA: FLJ22905 fis, clone KAT05654, highly similar to HUMRPL18A Homo sapiens riboso	4.1E-159

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1080	M00043350A:C04	MA183:D04		BC004324	gi 13279235 gb BC004324.1BC004324 Homo sapiens, ribosomal protein S16, clone MGC:10931 IMAGE:3628799, mRNA, complete cds	3.7E-231
1081	M00056646D:G05	MA186:B04		BC018190	gi 17390422 gb BC018190.1BC018190 Homo sapiens, Similar to metallothionein 1L, clone MGC:9187 IMAGE:3859643, mRNA, complete cds	3.4E-172
1082	M00055406C:H08	MA199:D04		AF078861	gi 5531836 gb AF078861.1AF078861 Homo sapiens PTD008 mRNA, complete cds	1.8E-192
1083	M00056653C:F06	MA186:H04		BC005354	gi 13529169 gb BC005354.1BC005354 Homo sapiens, ribosomal protein, large P2, clone MGC:12453 IMAGE:4052568, mRNA, complete cds	1.6E-264
1084	M00055408A:H06	MA199:H04		AF054183	gi 4092053 gb AF054183.1AF054183 Homo sapiens GTP binding protein mRNA, complete cds	1E-187
1085	M00055545D:E02	MA169:A05		BC009699	gi 16307220 gb BC009699.1BC009699 Homo sapiens, Similar to RNA helicase-related protein, clone MGC:9246 IMAGE:3892441, mRNA, comple	5E-224
1086	M00055548B:H07	MA169:C05		AF105253	gi 7532779 gb AF105253.1AF105253 Homo sapiens neuroendocrine secretory protein 55 mRNA, complete cds	4.2E-268
1087	M00056271C:F02	MA181:D05		BC008323	gi 14249887 gb BC008323.1BC008323 Homo sapiens, clone MGC:15764 IMAGE:3358085, mRNA, complete cds	5.8E-202
1088	M00055550D:A05	MA169:F05		AF130094	gi 11493492 gb AF130094.1AF130094 Homo sapiens clone FLC0165 mRNA sequence	3.4E-225
1089	M00055661A:F09	MA169:E11				
1090	M00056427D:A09	MA173:B05		U07550	gi 469170 gb U07550.1HSU07550 Human chaperonin 10 mRNA, complete cds	2E-145
1091	M00056163C:H09	MA180:B05		AF201944	gi 9295191 gb AF201944.1AF201944 Homo sapiens HGTD-P (HGTD-P) mRNA, complete cds	2.2E-285
1092	M00056428B:F07	MA173:C05		U30246	gi 903681 gb U30246.1HSU30246 Human bumetanide-sensitive Na-K-Cl cotransporter (NKCC1) mRNA, complete cds	9.7E-126

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1093	M00056163D:E01	MA180:C05		BC001829	gi 12804776 gb BC001829.1BC001829 Homo sapiens, lactate dehydrogenase A, clone MGC:4065 IMAGE:2960999, mRNA, complete cds	4.4E-240
1094	M00056428C:A12	MA173:E05		NM_001016	gi 14277699 ref NM_001016.2 Homo sapiens ribosomal protein S12 (RPS12), mRNA	4.2E-212
1095	M00056429D:D07	MA173:F05	0.53763			
1096	M00056175D:B05	MA180:G05		Z62862	gi 1035240 emb Z62862.1HS74B1R H.sapiens CpG island DNA genomic MseI fragment, clone 74b1, reverse read cpq74b1.r1a	6.9E-87
1097	M00056507D:D04	MA173:A11	0.65197			
1098	M00056511D:H07	MA173:F11		BC000419	gi 12653300 gb BC000419.1BC000419 Homo sapiens, catechol-O-methyltransferase, clone MGC:8663 IMAGE:2964400, mRNA, complete cds	6.1E-205
1099	M00054654A:F12	MA187:A05		NM_000976	gi 15431291 ref NM_000976.2 Homo sapiens ribosomal protein L12 (RPL12), mRNA	1E-296
1100	M00054868D:F12	MA189:A05		NM_012423	gi 14591905 ref NM_012423.2 Homo sapiens ribosomal protein L13a (RPL13A), mRNA	4.4E-140
1101	M00054661B:H10	MA187:D05		L47277	gi 986911 gb L47277.1HUMTOPATR A Homo sapiens (cell line HepG2, HeLa) alpha topoisomerase truncated-form mRNA, 3'UTR	5.8E-261
1102	M00054666B:C07	MA187:F05		AJ250229	gi 8926686 emb AJ250229.1HSA250229 Homo sapiens mRNA for chromosome 11 hypothetical protein (ORF1)	6.1E-205
1103	M00054870B:H05	MA189:F05		M26326	gi 186690 gb M26326.1HUMKER18A A Human keratin 18 mRNA, complete cds	4.8E-121
1104	M00054669B:B03	MA187:G05		BC001754	gi 12804658 gb BC001754.1BC001754 Homo sapiens, male-enhanced antigen, clone MGC:2286 IMAGE:3355279, mRNA, complete cds	8E-192
1105	M00054706B:G04	MA187:A11		AF201944	gi 9295191 gb AF201944.1AF201944 Homo sapiens HGTD-P (HGTD-P) mRNA, complete cds	8.3E-251
1106	M00054720C:F01	MA187:D11		BC013918	gi 15530264 gb BC013918.1BC013918 Homo sapiens, Similar to eukaryotic translation elongation factor 1 gamma, clone MGC:22883 IMAGE:	1.4E-224

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1107	M00054722B:E08	MA187:E11		Z62862	gi 1035240 emb Z62862.1HS74B1R H.sapiens CpG island DNA genomic MscI fragment, clone 74b1, reverse read cpg74b1.rtl1a	6E-116
1108	M00054908A:H08	MA189:E11		L00160	gi 189904 gb L00160.1HUMPGK2 Human phosphoglycerate kinase (pgk) mRNA, exons 2 to last	2.4E-291
1109	M00054723B:H12	MA187:G11		X60819	gi 34458 emb X60819.1HSMAOP14 H.sapiens DNA for monoamine oxidase type A (14) (partial)	1.6E-295
1110	M00057210B:G10	MA193:C05		U12404	gi 531170 gb U12404.1HSU12404 Human Csa-19 mRNA, complete cds	3.5E-175
1111	M00057248D:B05	MA193:B11		NM_001024	gi 14670385 ref NM_001024.2 Homo sapiens ribosomal protein S21 (RPS21), mRNA	1.3E-196
1112	M00057252A:F06	MA193:F11		AF035555	gi 3116433 gb AF035555.1AF035555 Homo sapiens short chain L-3- hydroxyacyl-CoA dehydrogenase (SCHAD) mRNA, complete cds	2.5E-182
1113	M00042573B:A02	MA167:B05		BC007583	gi 14043190 gb BC007583.1BC007583 Homo sapiens, clone MGC:15572 IMAGE:3140342, mRNA, complete cds	1.6E-102
1114	M00042766A:E10	MA171:F05		AF201944	gi 9295191 gb AF201944.1AF201944 Homo sapiens HGTD-P (HGTD-P) mRNA, complete cds	2.8E-244
1115	M00042882D:G08	MA167:A11		AF346964	gi 13272570 gb AF346964.1AF346964 Homo sapiens mitochondrion, complete genome	5.1E-199
1116	M00042885C:A12	MA167:B11		NM_001018	gi 14591911 ref NM_001018.2 Homo sapiens ribosomal protein S15 (RPS15), mRNA	1.9E-248
1117	M00042815A:E07	MA171:B11	0.781			
1118	M00042817B:E11	MA171:C11		AF077034	gi 4689115 gb AF077034.1AF077034 Homo sapiens HSPC010 mRNA, complete cds	5.6E-258
1119	M00042887C:A07	MA167:E11		X73502	gi 406853 emb X73502.1HSENCY20 H. Sapiens mRNA for cytokeratin 20	2.1E-195
1120	M00042818D:A08	MA171:G11		NM_001002	gi 16933547 ref NM_001002.2 Homo sapiens ribosomal protein, large, P0 (RPLP0), transcript variant 1, mRNA	2E-251
1121	M00056552A:G08	MA174:C05		AK027892	gi 14042896 dbj AK027892.1AK02789 2 Homo sapiens cDNA FLJ14986 fis, clone Y79AA1000784, highly similar to Homo sapiens RanBP7/import	2.4E-291

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1122	M00056552C:D08	MA174:D05		BC017831	gi 17389602 gb BC017831.1BC017831 Homo sapiens, ribosomal protein L17, clone MGC:22482 IMAGE:4251433, mRNA, complete cds	2E-279
1123	M00056553C:E10	MA174:E05		X14420	gi 30057 emb X14420.1HSCOL3A1 Human mRNA for pro-alpha-1 type 3 collagen	5.8E-289
1124	M00056555B:C11	MA174:H05		M58458	gi 337509 gb M58458.1HUMRPS4X Human ribosomal protein S4 (RPS4X) isoform mRNA, complete cds	1.2E-196
1125	M00056611C:D03	MA174:D11		AF081192	gi 3420798 gb AF081192.1AF081192 Homo sapiens histone H2A.F/Z variant (H2AV) mRNA, complete cds	3.9E-293
1126	M00056611D:B03	MA174:F11		L06498	gi 292442 gb L06498.1HUMRPS20 Homo sapiens ribosomal protein S20 (RPS20) mRNA, complete cds	3E-169
1127	M00056611D:F08	MA174:G11		M19645	gi 183644 gb M19645.1HUMGRP78 Human 78 kdalton glucose-regulated protein (GRP78) gene, complete cds	1.5E-289
1128	M00056614C:F06	MA174:H11		AB063318	gi 14517631 dbj AB063318.1AB063318 Homo sapiens MoDP-2, MoDP-3 mRNA for acute morphine dependence related protein 2, acute morphine	5.7E-230
1129	RG:358387:10009:A05	MA158:A05		BC014270	gi 15679933 gb BC014270.1BC014270 Homo sapiens, protein kinase C, zeta, clone MGC:10512 IMAGE:3835020, mRNA, complete cds	2.9E-266
1130	M00057302A:F08	MA182:A05		BC007097	gi 13937968 gb BC007097.1BC007097 Homo sapiens, tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagena	3.3E-147
1131	M00057302C:H09	MA182:C05		BC018210	gi 17390469 gb BC018210.1BC018210 Homo sapiens, tubulin-specific chaperone a, clone MGC:9129 IMAGE:3861138, mRNA, complete cds	2.1E-251
1132	M00054496A:B09	MA184:F05	0.60245	BC002589	gi 12803524 gb BC002589.1BC002589 Homo sapiens, proteasome (prosome, macropain) 26S subunit, ATPase, 2, clone MGC:3004 IMAGE:316179	3.5E-64

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1133	M00054496A:H05	MA184:H05		BC004138	gi 13278716 gb BC004138.1BC004138 Homo sapiens, ribosomal protein L6, clone MGC:1635 IMAGE:2823733, mRNA, complete cds	1.4E-286
1134	M00042460B:A08	MA182:A11		NM_000980	gi 15431299 ref NM_000980.2 Homo sapiens ribosomal protein L18a (RPL18A), mRNA	8.7E-229
1135	M00054524B:B09	MA184:A11		NM_000976	gi 15431291 ref NM_000976.2 Homo sapiens ribosomal protein L12 (RPL12), mRNA	4.1E-296
1136	M00054526C:E05	MA184:B11		NM_000988	gi 17017972 ref NM_000988.2 Homo sapiens ribosomal protein L27 (RPL27), mRNA	7E-189
1137	M00042516B:A08	MA182:C11		NM_000976	gi 15431291 ref NM_000976.2 Homo sapiens ribosomal protein L12 (RPL12), mRNA	2E-248
1138	M00042517D:H10	MA182:D11		BC000386	gi 12653234 gb BC000386.1BC000386 Homo sapiens, eukaryotic translation initiation factor 3, subunit 3 (gamma, 40kD), clone MGC:8431	3.8E-178
1139	M00054527B:H11	MA184:D11		AF155235	gi 6318598 gb AF155235.1AF155235 Homo sapiens 15.5 kD RNA binding protein mRNA, complete cds	4.5E-240
1140	M00042517D:H11	MA182:E11		BC016756	gi 16876963 gb BC016756.1BC016756 Homo sapiens, glutathione peroxidase 2 (gastrointestinal), clone IMAGE:3681457, mRNA	1.4E-230
1141	M00054529C:G04	MA184:G11		NM_022551	gi 14165467 ref NM_022551.2 Homo sapiens ribosomal protein S18 (RPS18), mRNA	2.7E-213
1142	M00043300D:A06	MA182:H11		BC012146	gi 15082460 gb BC012146.1BC012146 Homo sapiens, Similar to ribosomal protein L3, clone MGC:20359 IMAGE:4549682, mRNA, complete cds	3.6E-259
1143	M00054958A:G10	MA198:C05		AY007723	gi 15431041 gb AY007723.1 Homo sapiens MAL2 proteolipid (MAL2) mRNA, complete cds	2.6E-185
1144	M00054958B:B07	MA198:D05	0.12023	AF012108	gi 2331249 gb AF012108.1AF012108 Homo sapiens Amplified in Breast Cancer (AIB1) mRNA, complete cds	2.6E-111
1145	M00054961D:E08	MA198:H05		NM_005617	gi 14141191 ref NM_005617.2 Homo sapiens ribosomal protein S14 (RPS14), mRNA	3.2E-172
1146	M00055015C:H02	MA198:C11		X58965	gi 35069 emb X58965.1HSNM23H2G H.sapiens RNA for nm23-H2 gene	4.4E-187

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1147	M00055016B:D03	MA198:E11		NM_001010	gi 17158043 ref NM_001010.2 Homo sapiens ribosomal protein S6 (RPS6), mRNA	1.7E-186
1148	M00055764D:D05	MA170:E05		BC001708	gi 12804576 gb BC001708.1BC001708 Homo sapiens, ribosomal protein S3A, clone MGC:1626 IMAGE:3544072, mRNA, complete cds	9.8E-210
1149	M00055815C:E08	MA170:B11		AK025459	gi 10437979 dbj AK025459.1AK025459 9 Homo sapiens cDNA: FLJ21806 fis, clone HEP00829, highly similar to HSTRA1 Human tra1 mRNA for hu	4.8E-249
1150	M00055819B:B12	MA170:F11		AF014838	gi 2281706 gb AF014838.1AF014838 Homo sapiens galectin-4 mRNA, complete cds	8.3E-254
1151	M00055820C:H11	MA170:H11		NM_000967	gi 16507968 ref NM_000967.2 Homo sapiens ribosomal protein L3 (RPL3), mRNA	3.4E-175
1152	M00055204B:C04	MA196:A05		X57351	gi 311373 emb X57351.1HS18D Human 1-8D gene from interferon-inducible gene family	1.2E-218
1153	M00055209A:C09	MA196:D05		AF028832	gi 3287488 gb AF028832.1AF028832 Homo sapiens Hsp89-alpha-delta-N mRNA, complete cds	9.1E-232
1154	M00055252C:G12	MA196:D11	0.1038	U16738	gi 608516 gb U16738.1HSU16738 Homo sapiens CAG-isl 7 mRNA, complete cds	1E-172
1155	M00056934C:D08	MA177:A05		Z69043	gi 2398656 emb Z69043.1HSTRAPRN A H.sapiens mRNA translocon-associated protein delta subunit precursor	3.2E-281
1156	M00055989C:D03	MA179:B05	0.8			
1157	M00056937C:G12	MA177:D05		AK055020	gi 16549662 dbj AK055020.1AK055020 0 Homo sapiens cDNA FLJ30458 fis, clone BRACE2009421, highly similar to NUCLEOSOME ASSEMBLY PROTEIN	3.2E-219
1158	M00055997B:A02	MA179:H05	0.89264			
1159	M00056087A:G01	MA179:C11		AF150754	gi 12484558 gb AF150754.2AF150754 Homo sapiens 3'phosphoadenosine 5'-phosphosulfate synthase 2b isoform mRNA, complete cds	2.4E-96
1160	M00056091A:H05	MA179:D11		BC013724	gi 15489238 gb BC013724.1BC013724 Homo sapiens, ferritin, heavy polypeptide 1, clone MGC:17255 IMAGE:3857790, mRNA, complete cds	3.9E-265

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1161	M00056966B:A05	MA177:E11		AF346974	gi 13272710 gb AF346974.1AF346974 Homo sapiens mitochondrion, complete genome	5.6E-108
1162	M00056093A:F08	MA179:F11	0.26754			
1163	M00056096C:H10	MA179:H11	0.77419			
1164	M00054766B:E10	MA188:H05		BC005328	gi 13529103 gb BC005328.1BC005328 Homo sapiens, ribosomal protein S27a, clone MGC:12414, mRNA, complete cds	5.8E-258
1165	M00054817B:H09	MA188:B11		BC015465	gi 15930040 gb BC015465.1BC015465 Homo sapiens, HSPC023 protein, clone MGC:8754 IMAGE:3914049, mRNA, complete cds	8.4E-254
1166	M00054818D:G04	MA188:D11		BC008495	gi 14250151 gb BC008495.1BC008495 Homo sapiens, nucleophosmin (nucleolar phosphoprotein B23, numatrin), clone MGC:14826 IMAGE:42766	1.4E-258
1167	M00042851D:H04	MA172:A05		NM_001000	gi 16306563 ref NM_001000.2 Homo sapiens ribosomal protein L39 (RPL39), mRNA	3.7E-156
1168	M00042853A:F01	MA172:B05		NM_000970	gi 16753226 ref NM_000970.2 Homo sapiens ribosomal protein L6 (RPL6), mRNA	3.4E-284
1169	M00055426A:G06	MA168:E05		AF272149	gi 9971873 gb AF272149.1AF272149 Homo sapiens hepatocellular carcinoma associated-gene TB6, mRNA sequence	1.3E-61
1170	M00055496A:G12	MA168:B11		AF203815	gi 6979641 gb AF203815.1AF203815 Homo sapiens alpha gene sequence	5.6E-202
1171	M00055509C:C02	MA168:F11	0.76684	AL590401	gi 14422235 emb AL590401.6AL590401 1 Human DNA sequence from clone RP11-466P12 on chromosome 6, complete sequence [Homo sapiens]	1.8E-35
1172	M00055510B:F08	MA168:G11		AF067174	gi 4894381 gb AF067174.1AF067174 Homo sapiens retinol dehydrogenase homolog mRNA, complete cds	2.2E-257
1173	M00055510D:A08	MA168:H11		AK026649	gi 10439547 dbj AK026649.1AK026649 9 Homo sapiens cDNA: FLJ22996 fis, clone KAT11938	1.6E-161
1174	M00056748C:B08	MA175:B05		AF054183	gi 4092053 gb AF054183.1AF054183 Homo sapiens GTP binding protein mRNA, complete cds	1.2E-165
1175	M00056749A:F01	MA175:C05		Y14736	gi 2765422 emb Y14736.1HSIGGIKL Homo sapiens mRNA for immunoglobulin kappa light chain	1.2E-249

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1176	M00056754B:A10	MA175:G05		V00710	gi 13683 emb V00710.1MIT1HS Human mitochondrial genes for several tRNAs (Phe, Val, Leu) and 12S and 16S ribosomal RNAs	6.3E-292
1177	M00056754B:H06	MA175:H05		D38112	gi 644480 dbj D38112.1HUMMTA Homo sapiens mitochondrial DNA, complete sequence	1.4E-252
1178	RG:1653390:10014:E05	MA163:E05		M15353	gi 306486 gb M15353.1HUMIF4E Homo sapiens cap-binding protein mRNA, complete cds	1.5E-138
1179	RG:1669553:10014:G05	MA163:G05		X03663	gi 29899 emb X03663.1HSCFMS Human mRNA for c-fms proto-oncogene	5.8E-221
1180	M00043355A:H12	MA183:B05		M94314	gi 292436 gb M94314.1HUMRPL30A Homo sapiens ribosomal protein L30 mRNA, complete cds	7.9E-66
1181	M00043355B:F10	MA183:C05		AK055653	gi 16550433 dbj AK055653.1AK055653 Homo sapiens cDNA FLJ31091 fis, clone IMR321000155, highly similar to 60S RIBOSOMAL PROTEIN L35A	1.1E-165
1182	M00043357B:B10	MA183:G05		NM_000978	gi 14591907 ref NM_000978.2 Homo sapiens ribosomal protein L23 (RPL23), mRNA	3.7E-206
1183	M00054557C:D09	MA185:G05		NM_012423	gi 14591905 ref NM_012423.2 Homo sapiens ribosomal protein L13a (RPL13A), mRNA	9.6E-167
1184	M00043358B:G11	MA183:H05		M60854	gi 338446 gb M60854.1HUMSRAA Human ribosomal protein S16 mRNA, complete cds	5.2E-280
1185	M00043396D:B04	MA183:A11		AF026166	gi 4090928 gb AF026166.1AF026166 Homo sapiens chaperonin-containing TCP-1 beta subunit homolog mRNA, complete cds	4.1E-237
1186	M00054612D:D11	MA185:H11		NM_006013	gi 15718685 ref NM_006013.2 Homo sapiens ribosomal protein L10 (RPL10), mRNA	1.2E-171
1187	M00055409B:D08	MA199:A05		BC016748	gi 16876941 gb BC016748.1BC016748 Homo sapiens, ribosomal protein L37a, clone MGC:26772 IMAGE:4831278, mRNA, complete cds	3.6E-55
1188	M00055409D:F06	MA199:B05		V00572	gi 35434 emb V00572.1HSPGK1 Human mRNA encoding phosphoglycerate kinase	1.6E-186
1189	M00055410A:A06	MA199:C05	0.80422			
1190	M00056659A:D08	MA186:F05		M15470	gi 187680 gb M15470.1HUMMHB44 Human MHC class I HLA-B44 mRNA, partial cds	3E-275

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1191	M00056704C:H08	MA186:D11		BC001125	gi 12654578 gb BC001125.1BC001125 Homo sapiens, peptidylprolyl isomerase B (cyclophilin B), clone MGC:2224 IMAGE:2966791, mRNA, com	8.2E-282
1192	M00055553C:B06	MA169:A06				
1193	M00056280B:D10	MA181:A06	0.72079			
1194	M00056282D:G10	MA181:C06	0.05211	AJ420520	gi 17066384 emb AJ420520.1HSA420520 Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 1979495	1.5E-88
1195	M00056288B:A12	MA181:G06		D14530	gi 414348 dbj D14530.1HUMRSPT Human homolog of yeast ribosomal protein S28, complete cds	9.8E-23
1196	M00055686D:E11	MA169:B12		L02785	gi 291963 gb L02785.1HUMDRA Homo sapiens colon mucosa-associated (DRA) mRNA, complete cds	5.9E-202
1197	M00042346B:F09	MA181:C12	0.23093	AK000168	gi 7020079 dbj AK000168.1AK000168 Homo sapiens cDNA FLJ20161 fis, clone COL09252, highly similar to L33930 Homo sapiens CD24 signal	7.4E-202
1198	M00055698C:E05	MA169:E12	0.82609			
1199	M00042347C:D07	MA181:E12		M12759	gi 532596 gb M12759.1HUMIGJ02 Human Ig J chain gene, exons 3 and 4	3.2E-166
1200	M00055702C:C04	MA169:F12	0.85			
1201	M00042348C:F03	MA181:G12		X60489	gi 31099 emb X60489.1HSEF1B Human mRNA for elongation factor-1-beta	6.8E-233
1202	M00055335D:E01	MA197:D06		BC003510	gi 13097578 gb BC003510.1BC003510 Homo sapiens, prothymosin, alpha (gene sequence 28), clone MGC:10549 IMAGE:3610808, mRNA, complet	2.6E-176
1203	M00056180C:E06	MA180:B06		BC018190	gi 17390422 gb BC018190.1BC018190 Homo sapiens, Similar to metallothionein 1L, clone MGC:9187 IMAGE:3859643, mRNA, complete cds	5.3E-171
1204	M00056184B:G11	MA180:D06		Y00345	gi 35569 emb Y00345.1HSPOLYAB Human mRNA for polyA binding protein	8.2E-254
1205	M00056514A:F06	MA173:A12		AJ335311	gi 15879729 emb AJ335311.1HSA335311 Homo sapiens genomic sequence surrounding NotI site, clone NRI-WB8C	7.7E-54

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1206	M00056514C:H11	MA173:D12		BC000386	gi 12653234 gb BC000386.1BC000386 Homo sapiens, eukaryotic translation initiation factor 3, subunit 3 (gamma, 40kD), clone MGC:8431	1.8E-242
1207	M00054674D:C05	MA187:C06		D14530	gi 414348 dbj D14530.1HUMRSPT Human homolog of yeast ribosomal protein S28, complete cds	8.3E-198
1208	M00054675A:H07	MA187:D06		X00474	gi 35706 emb X00474.1HSPS2 Human pS2 mRNA induced by estrogen from human breast cancer cell line MCF-7	7.8E-170
1209	M00054878A:G12	MA189:D06		AL359678	gi 15215911 emb AL359678.15AL359678 Human DNA sequence from clone RP11-550J21 on chromosome 9, complete sequence [Homo sapiens]	2.4E-207
1210	M00054676B:D07	MA187:H06		BC000749	gi 13879207 gb BC000749.1BC000749 Homo sapiens, lactate dehydrogenase A, clone MGC:2417 IMAGE:2960999, mRNA, complete cds	2.9E-129
1211	M00054725A:E09	MA187:B12		NM_022551	gi 14165467 ref NM_022551.2 Homo sapiens ribosomal protein S18 (RPS18), mRNA	2.7E-241
1212	M00054924C:B09	MA189:C12	0.63711			
1213	M00054726D:B04	MA187:D12		X16064	gi 37495 emb X16064.1HSTUMP Human mRNA for translationally controlled tumor protein	1.1E-271
1214	M00054927A:H09	MA189:E12		X06705	gi 35511 emb X06705.1HSPLAX Human PLA-X mRNA	2.7E-297
1215	M00054727C:F11	MA187:F12	0.7234			
1216	M00054728A:H05	MA187:H12		X16064	gi 37495 emb X16064.1HSTUMP Human mRNA for translationally controlled tumor protein	1.3E-168
1217	M00054930B:G05	MA189:H12		U15008	gi 600747 gb U15008.1HSU15008 Human SnRNP core protein Sm D2 mRNA, complete cds	7E-270
1218	M00057214C:G11	MA193:B06		U55206	gi 2957143 gb U55206.1HSU55206 Homo sapiens human gamma-glutamyl hydrolase (hGH) mRNA, complete cds	4.1E-115
1219	M00057216C:G01	MA193:D06		BC000695	gi 12653812 gb BC000695.1BC000695 Homo sapiens, Similar to tetraspan 1, clone IMAGE:3349380, mRNA	7.3E-28

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1220	M00057217C:B07	MA193:F06		AK057120	gi 16552707 dbj AK057120.1AK057120 Homo sapiens cDNA FLJ32558 fis, clone SPLEN1000143, highly similar to HIGH MOBILITY GROUP PROTEIN	3.6E-206
1221	M00042695A:H04	MA167:B06		BC007075	gi 13937928 gb BC007075.1BC007075 Homo sapiens, hemoglobin, beta, clone MGC:14540 IMAGE:4292125, mRNA, complete cds	9.6E-37
1222	M00042695D:D09	MA167:C06		BC018749	gi 17511797 gb BC018749.1BC018749 Homo sapiens, Similar to immunoglobulin lambda joining 3, clone MGC:31942 IMAGE:4854511, mRNA, co	3.5E-194
1223	M00042771A:D01	MA171:D06		BC007659	gi 14043327 gb BC007659.1BC007659 Homo sapiens, diaphorase (NADH/NADPH) (cytochrome b-5 reductase), clone MGC:2073 IMAGE:3349257, m	6.7E-239
1224	M00042772D:F02	MA171:E06		NM_002295	gi 9845501 ref NM_002295.2 Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA	2.2E-254
1225	M00042773A:A12	MA171:F06		AK000009	gi 7019813 dbj AK000009.1AK000009 Homo sapiens cDNA FLJ20002 fis, clone ADKA01577	2.6E-213
1226	M00042699B:B10	MA167:G06		X98311	gi 1524059 emb X98311.1HSCGM2A NT H.sapiens mRNA for carcinoembryonic antigen family member 2, CGM2	1.5E-31
1227	M00042889A:H07	MA167:A12		NM_005950	gi 10835229 ref NM_005950.1 Homo sapiens metallothionein 1G (MT1G), mRNA	6E-202
1228	M00042819A:C09	MA171:A12		BC009220	gi 14327996 gb BC009220.1BC009220 Homo sapiens, clone MGC:16362 IMAGE:3927795, mRNA, complete cds	5.2E-218
1229	M00042819C:B03	MA171:B12		NM_000995	gi 16117786 ref NM_000995.2 Homo sapiens ribosomal protein L34 (RPL34), transcript variant 1, mRNA	9.4E-207
1230	M00042895B:C02	MA167:C12		AF217186	gi 11526786 gb AF217186.1AF217186 Homo sapiens inorganic pyrophosphatase 1 (PPA1) mRNA, complete cds	1.4E-283
1231	M00042823B:A02	MA171:C12		AF212248	gi 13182770 gb AF212248.1AF212248 Homo sapiens CDA09 mRNA, complete cds	5.1E-252

Table 3

SEQ ID NO	Clone ID	MA Clone ID	Mask Prent	GBHit	GBDescription	GBScore
1232	M00042895D:B04	MA167:E12		U83908	gi 1825561 gb U83908.1HSU83908 Human nuclear antigen H731 mRNA, complete cds	2.4E-229
1233	M00056564B:F11	MA174:F06		AL136593	gi 7018431 emb AL136593.1HSM8015 67 Homo sapiens mRNA; cDNA DKFZp761K102 (from clone DKFZp761K102); complete cds	3.4E-284
1234	M00056564C:E08	MA174:G06		Z74616	gi 1418929 emb Z74616.1HSPPA21CO H.sapiens mRNA for prepro-alpha2(I) collagen	1.4E-286
1235	M00056615D:A01	MA174:A12		X12881	gi 34036 emb X12881.1HSKER18R Human mRNA for cytokeratin 18	1.8E-273
1236	M00056620D:F02	MA174:G12		AK000335	gi 7020350 dbj AK000335.1AK000335 Homo sapiens cDNA FLJ20328 fis, clone HEP10039	3.5E-287
1237	RG:359184:10009:A06	MA158:A06		M35663	gi 189505 gb M35663.1HUMP68A Human p68 kinase mRNA, complete cds	1.6E-258
1238	RG:428530:10009:D12	MA158:D12		AF321918	gi 12958659 gb AF321918.1AF321918 Homo sapiens testicular acid phosphatase (ACPT) gene, complete cds, alternatively spliced product	0
1239	M00057310A:A07	MA182:A06		AF054187	gi 4092059 gb AF054187.1AF054187 Homo sapiens alpha NAC mRNA, complete cds	7.3E-143
1240	M00054503C:H10	MA184:F06		BC018828	gi 17402971 gb BC018828.1BC018828 Homo sapiens, clone IMAGE:3343539, mRNA	2E-276
1241	M00043302C:D03	MA182:C12		BC006791	gi 13905015 gb BC006791.1BC006791 Homo sapiens, ribosomal protein L10a, clone MGC:5203 IMAGE:2901249, mRNA, complete cds	8.3E-282
1242	M00054535B:F10	MA184:F12		S35960	gi 249370 gb S35960.1S35960 laminin receptor homolog {3' region} [human, mRNA Partial, 739 nt]	4.1E-112
1243	M00054535C:D10	MA184:G12		BC008063	gi 14165520 gb BC008063.1BC008063 Homo sapiens, Similar to KIAA0102 gene product, clone MGC:2249 IMAGE:2967488, mRNA, complete cds	4.7E-274
1244	M00054535C:H09	MA184:H12		AB020680	gi 4240234 dbj AB020680.1AB020680 Homo sapiens mRNA for KIAA0873 protein, partial cds	3.1E-275

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1245	M00054964B:A08	MA198:C06		BC017189	gi 16877928 gb BC017189.1BC017189 Homo sapiens, myo-inositol 1-phosphate synthase A1, clone MGC:726 IMAGE:3140452, mRNA, complete c	1.1E-190
1246	M00054966C:H01	MA198:D06		BC018828	gi 17402971 gb BC018828.1BC018828 Homo sapiens, clone IMAGE:3343539, mRNA	4.4E-190
1247	M00055022D:F01	MA198:D12		NM_000975	gi 15431289 ref NM_000975.2 Homo sapiens ribosomal protein L11 (RPL11), mRNA	2.5E-182
1248	M00055026C:C12	MA198:G12		NM_007209	gi 16117792 ref NM_007209.2 Homo sapiens ribosomal protein L35 (RPL35), mRNA	4E-184
1249	M00055027B:C11	MA198:H12		AF283772	gi 10281741 gb AF283772.2AF283772 Homo sapiens clone TCBAPO781 mRNA sequence	1E-187
1250	M00055826D:C11	MA170:E12	0.7443			
1251	M00055828C:D10	MA170:G12		V00662	gi 13003 cmb V00662.1MIHSXX H.sapiens mitochondrial genome	9.5E-229
1252	M00055828D:F12	MA170:H12	0.71968	BC001573	gi 16306770 gb BC001573.1BC001573 Homo sapiens, clone MGC:5522 IMAGE:3454199, mRNA, complete cds	2.8E-37
1253	M00055215C:E11	MA196:B06		BC001118	gi 12654566 gb BC001118.1BC001118 Homo sapiens, Similar to seven transmembrane domain protein, clone MGC:1936 IMAGE:2989840, mRNA,	2.4E-288
1254	M00055217C:E09	MA196:D06		BC010187	gi 14603477 gb BC010187.1BC010187 Homo sapiens, ribosomal protein S11, clone MGC:20218 IMAGE:4547934, mRNA, complete cds	4.3E-215
1255	M00055221B:C01	MA196:E06		NM_001016	gi 14277699 ref NM_001016.2 Homo sapiens ribosomal protein S12 (RPS12), mRNA	4.7E-246
1256	M00055222A:E02	MA196:G06		NM_000987	gi 17017970 ref NM_000987.2 Homo sapiens ribosomal protein L26 (RPL26), mRNA	2.1E-226
1257	M00056226D:F03	MA180:B12		BC011835	gi 15080118 gb BC011835.1BC011835 Homo sapiens, Similar to ATPase, Na+/K+ transporting, beta 3 polypeptide, clone MGC:20152 IMAGE:3	1.7E-57
1258	M00055258A:G02	MA196:F12		BC016753	gi 16876954 gb BC016753.1BC016753 Homo sapiens, clone MGC:1138 IMAGE:2987963, mRNA, complete cds	1.3E-102

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1259	M00055998A:A02	MA179:A06		AF343729	gi 13649973 gb AF343729.1AF343729 Homo sapiens 3-alpha hydroxysteroid dehydrogenase mRNA, complete cds	1.4E-283
1260	M00056945A:B11	MA177:A06	0.89778			
1261	M00056945D:H03	MA177:C06	0.71282			
1262	M00056001A:F11	MA179:D06		BC015983	gi 16359036 gb BC015983.1BC015983 Homo sapiens, clone IMAGE:4074053, mRNA	4.5E-165
1263	M00056946D:B04	MA177:F06		AF028832	gi 3287488 gb AF028832.1AF028832 Homo sapiens Hsp89-alpha-delta-N mRNA, complete cds	1E-296
1264	M00056101B:B02	MA179:A12		AL049999	gi 4884252 emb AL049999.1HSM8003 47 Homo sapiens mRNA; cDNA DKFZp564M182 (from clone DKFZp564M182); partial cds	3E-100
1265	M00056110C:D09	MA179:E12		AK024903	gi 10437317 dbj AK024903.1AK024903 3 Homo sapiens cDNA: FLJ21250 fis, clone COL01253, highly similar to AB020527 Homo sapiens mRNA fo	1E-209
1266	M00056111B:H03	MA179:F12	0.81436			
1267	M00054772B:H06	MA188:G06		L19185	gi 440307 gb L19185.1HUMNKEFB Human natural killer cell enhancing factor (NKEFB) mRNA, complete cds	3.6E-178
1268	M00054825B:B05	MA188:C12	0.09038	NM_005348	gi 13129149 ref NM_005348.1 Homo sapiens heat shock 90kD protein 1, alpha (HSPCA), mRNA	4.1E-222
1269	M00054831A:G04	MA188:D12		AL359585	gi 8655645 emb AL359585.1HSM8026 87 Homo sapiens mRNA; cDNA DKFZp762B195 (from clone DKFZp762B195)	6.2E-116
1270	M00054831D:B07	MA188:F12		U43701	gi 1399085 gb U43701.1HSU43701 Human ribosomal protein L23a mRNA, complete cds	4.2E-296
1271	M00042862D:A12	MA172:B06		BC007097	gi 13937968 gb BC007097.1BC007097 Homo sapiens, tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagena	1.9E-248
1272	M00042864A:E05	MA172:E06	0.59184			
1273	M00042864D:E06	MA172:F06		NM_007099	gi 6005987 ref NM_007099.1 Homo sapiens acid phosphatase 1, soluble (ACPI), transcript variant b, mRNA	3.5E-228
1274	M00055514B:A05	MA168:E12		BC001190	gi 12654700 gb BC001190.1BC001190 Homo sapiens, Similar to creatine kinase, brain, clone MGC:3160 IMAGE:3354679, mRNA, complete cds	1.4E-230

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1275	M00056763B:A12	MA175:D06		NM_004417	gi 7108342 ref NM_004417.2 Homo sapiens dual specificity phosphatase 1 (DUSP1), mRNA	6.4E-267
1276	M00056767D:F06	MA175:F06		AF203815	gi 6979641 gb AF203815.1 AF203815 Homo sapiens alpha gene sequence	8.6E-285
1277	M00056821A:D08	MA175:A12		NM_001016	gi 14277699 ref NM_001016.2 Homo sapiens ribosomal protein S12 (RPS12), mRNA	8.3E-220
1278	M00056822C:G03	MA175:C12		NM_000970	gi 16753226 ref NM_000970.2 Homo sapiens ribosomal protein L6 (RPL6), mRNA	3.4E-284
1279	M00056823D:H02	MA175:E12		BC018828	gi 17402971 gb BC018828.1 BC018828 Homo sapiens, clone IMAGE:3343539, mRNA	1.9E-276
1280	RG:1609994:10014:A06	MA163:A06		BC006322	gi 13623444 gb BC006322.1 BC006322 Homo sapiens, activating transcription factor 3, clone MGC:12746 IMAGE:4138076, mRNA, complete cd	1E-300
1281	RG:1667183:10014:F12	MA163:F12		BC000013	gi 12652546 gb BC000013.1 BC000013 Homo sapiens, insulin-like growth factor binding protein 3, clone MGC:2305 IMAGE:3506666, mRNA, c	5.4E-58
1282	M00043358D:C06	MA183:A06		AF113008	gi 6642739 gb AF113008.1 AF113008 Homo sapiens clone FLB0708 mRNA sequence	1.5E-152
1283	M00054558B:E05	MA185:A06	0.69811	BC014498	gi 15680272 gb BC014498.1 BC014498 Homo sapiens, clone IMAGE:4856273, mRNA	1.1E-27
1284	M00043361B:G03	MA183:E06		NM_001025	gi 14790142 ref NM_001025.2 Homo sapiens ribosomal protein S23 (RPS23), mRNA	1.3E-218
1285	M00043408C:D11	MA183:G12		U14967	gi 550014 gb U14967.1 HSU14967 Human ribosomal protein L21 mRNA, complete cds	1.4E-283
1286	M00054632A:E11	MA185:H12	0.18764	X73459	gi 313660 emb X73459.1 HSSRP14A H.sapiens mRNA for signal recognition particle subunit 14	2E-140
1287	M00056661A:G05	MA186:A06		L18960	gi 306724 gb L18960.1 HUME1F4C Human protein synthesis factor (eIF-4C) mRNA, complete cds	5.2E-280
1288	M00056661C:C11	MA186:B06		S72481	gi 632789 gb S72481.1 S72481 pantophysin [human, keratinocyte line HaCaT, mRNA, 2106 nt]	3.4E-281
1289	M00055412D:E05	MA199:B06		M26697	gi 189311 gb M26697.1 HUMNUMB23 Human nucleolar protein (B23) mRNA, complete cds	8.9E-176

Table 3

SEQ ID NO	Clone ID	MAClone ID	Mask Prent	GBHit	GBDescription	GBScore
1290	M00055413A:G12	MA199:C06		BC012354	gi 15214456 gb BC012354.1BC012354 Homo sapiens, clone MGC:20390 IMAGE:4564801, mRNA, complete cds	1.9E-95
1291	M00055414D:A09	MA199:D06		X06705	gi 35511 emb X06705.1HSPLAX Human PLA-X mRNA	4.1E-187
1292	M00056707B:C01	MA186:C12		AF178581	gi 10800410 gb AF178581.2AF178581 Homo sapiens nasopharyngeal carcinoma gene sequence	1.3E-252
1293	M00056237D:C10	MA181:D01	0.64821			
1294	M00056238B:D03	MA181:E01		AF083241	gi 5106776 gb AF083241.1HSPC024 Homo sapiens HSPC024 mRNA, complete cds	9.4E-257
1295	M00056239B:D05	MA181:G01	0.89873			
1296	M00056241B:H07	MA181:H01	0.625	NM_033340	gi 15718701 ref NM_033340.1 Homo sapiens caspase 7, apoptosis-related cysteine protease (CASP7), transcript variant beta, mRNA	2.2E-50
1297	I:2921194:04B02:C06	MA118:C06		AB006780	gi 2385451 dbj AB006780.1AB006780 Homo sapiens mRNA for galectin-3, complete cds	3.1E-222
1298	I:1624865:04B02:G06	MA118:G06		U15009	gi 600749 gb U15009.1HSU15009 Human SnRNP core protein Sm D3 mRNA, complete cds	4.7E-246
1299	I:1728607:04A02:H06	MA116:H06		BC016164	gi 16740573 gb BC016164.1BC016164 Homo sapiens, small inducible cytokine subfamily D (Cys-X3-Cys), member 1 (fractalkine, neurotact	1E-262
1300	I:2827453:04B02:H06	MA118:H06		U27143	gi 862932 gb U27143.1HSU27143 Human protein kinase C inhibitor-1 cDNA, complete cds	2.5E-113
1301	I:2070593:04B02:D12	MA118:D12		D83004	gi 1181557 dbj D83004.1D83004 Human epidermoid carcinoma mRNA for ubiquitin-conjugating enzyme E2 similar to Drosophila bendless ge	1.5E-233
1302	I:2683114:04A02:H12	MA116:H12		L20493	gi 306754 gb L20493.1HUMGAGLUT D Human gamma-glutamyl transpeptidase mRNA, complete cds	1E-300
1303	I:1809336:02A02:G06	MA108:G06		U09117	gi 483919 gb U09117.1HSU09117 Human phospholipase c delta 1 mRNA, complete cds	1.3E-280

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
1	18	M00026919B:A10	MA40:F01	41.17647059	20.58823529	0	34
2	20	M00026919B:E07	MA40:G01	0	0	20.58823529	34
3	22	M00026919D:F04	MA40:H01	20.58823529	8.823529412	0	34
4	54	M00026914D:G06	MA40:A01	0	0	58.82352941	34
5	56	M00026950A:A09	MA40:D07	0	0	32.35294118	34
6	67	M00003820C:A09	MA244:B01	0	0	23.52941176	34
7	73	M00001673A:G03	MA244:E01	23.52941176	0	5.882352941	34
8	115	M00007939A:A12	MA27:B07	55.88235294	5.882352941	0	34
9	119	M00007939A:B11	MA27:D07	0	0	29.41176471	34
10	127	M00007939B:G03	MA27:H07	0	0	55.88235294	34
11	166	M00007997D:G08	MA29:C01	0	0	47.05882353	34
12	220	M00026894C:E11	MA39:F07	38.23529412	0	0	34
13	238	M00001391A:C05	MA15:G01	5.882352941	0	38.23529412	34
14	294	M00006818A:A06	MA240:C01	20.58823529	0	0	34
15	393	M00023278A:F09	MA36:E01	0	0	41.17647059	34
16	405	M00023299A:G01	MA36:C07	70.58823529	8.823529412	0	34
17	411	M00023301A:A11	MA36:F07	26.47058824	0	0	34
18	453	M00008050A:D12	MA30:C01	23.52941176	2.941176471	0	34
19	460	M00022135A:C04	MA35:F01	0	0	23.52941176	34
20	462	M00022137A:A05	MA35:G01	26.47058824	11.76470588	0	34
21	466	M00022176C:A07	MA35:A07	8.823529412	0	20.58823529	34
22	471	M00008077B:A08	MA30:D07	41.17647059	2.941176471	0	34
23	477	M00008077C:D09	MA30:G07	26.47058824	0	0	34
24	492	M00022081C:E09	MA34:F01	32.35294118	0	0	34
25	495	M00001662A:G06	MA24:H01	0	0	20.58823529	34
26	504	M00022102B:B11	MA34:D07	35.29411765	8.823529412	0	34
27	506	M00022102B:E08	MA34:E07	0	0	29.41176471	34
28	556	M00022569D:G06	MA22:F01	8.823529412	0	35.29411765	34
29	577	M00001358B:B11	MA14:A01	52.94117647	2.941176471	0	34
30	578	M00001429A:G04	MA16:A01	79.41176471	29.41176471	0	34
31	579	M00001358B:F05	MA14:B01	82.35294118	32.35294118	0	34
32	582	M00001429C:C03	MA16:C01	44.11764706	2.941176471	0	34
33	585	M00001359D:B04	MA14:E01	38.23529412	0	0	34
34	587	M00001360A:E10	MA14:F01	50	0	0	34
35	589	M00001360C:B05	MA14:G01	61.76470588	8.823529412	2.941176471	34
36	590	M00001430B:F01	MA16:G01	38.23529412	0	0	34
37	592	M00001430C:A02	MA16:H01	44.11764706	0	0	34
38	594	M00001445C:H05	MA16:A07	50	2.941176471	0	34
39	596	M00001445D:D07	MA16:B07	0	0	47.05882353	34
40	605	M00001374D:D10	MA14:G07	70.58823529	5.882352941	0	34
41	607	M00001375A:A08	MA14:H07	38.23529412	8.823529412	14.70588235	34
42	643	M00006600A:E07	MA241:B01	61.76470588	5.882352941	0	34
43	661	M00006690A:F06	MA241:C07	0	0	20.58823529	34
44	739	M00023325D:A08	MA37:B02	2.941176471	0	23.52941176	34
45	742	M00026921D:F12	MA40:C02	38.23529412	8.823529412	0	34
46	743	M00023325D:F06	MA37:D02	32.35294118	2.941176471	0	34
47	750	M00026924A:E09	MA40:G02	79.41176471	0	0	34
48	823	M00007940C:A04	MA27:D08	0	0	23.52941176	34
49	827	M00007941C:H03	MA27:F08	38.23529412	5.882352941	0	34

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
50	828	M00021638B:F03	MA31:F08	0	0	58.82352941	34
51	831	M00007941D:C04	MA27:H08	55.88235294	2.941176471	0	34
52	842	M00004054D:D02		0	0	26.47058824	34
53	857	M00001507A:A10	MA23:E08	23.52941176	23.52941176	0	34
54	858	M00004198D:A01		26.47058824	5.882352941	0	34
55	861	M00001528C:B08	MA23:G08	0	0	29.41176471	34
56	868	M00008002C:A05	MA29:B03	50	0	0	34
57	880	M00008006C:H05	MA29:H03	0	0	52.94117647	34
58	898	M00026850C:A01	MA39:A02	0	0	20.58823529	34
59	908	M00026853D:C07	MA39:F02	38.23529412	0	0	34
60	920	M00026896A:C09	MA39:D08	32.35294118	2.941176471	2.941176471	34
61	934	M00001391B:D02	MA15:C02	73.52941176	11.76470588	0	34
62	938	M00001391B:H05	MA15:E02	26.47058824	5.882352941	0	34
63	940	M00001391D:C07	MA15:F02	41.17647059	2.941176471	0	34
64	942	M00001392B:B01	MA15:G02	52.94117647	5.882352941	0	34
65	954	M00001407B:C03	MA15:E08	55.88235294	2.941176471	0	34
66	1011	M00005635B:E02	MA242:B08	0	0	29.41176471	34
67	1017	M00005636B:B06	MA242:E08	70.58823529	5.882352941	0	34
68	1018	M00006971A:E06	MA240:E08	64.70588235	11.76470588	0	34
69	1019	M00005636D:B08	MA242:F08	52.94117647	2.941176471	0	34
70	1107	M00023302C:A04	MA36:B08	20.58823529	8.823529412	2.941176471	34
71	1117	M00023305A:C02	MA36:G08	23.52941176	2.941176471	2.941176471	34
72	1172	M00022180A:E08	MA35:B08	0	0	58.82352941	34
73	1178	M00022181C:H11	MA35:E08	20.58823529	5.882352941	0	34
74	1193	M00001673A:C11		41.17647059	2.941176471	0	34
75	1201	M00003853B:C07		23.52941176	11.76470588	0	34
76	1204	M00022106B:D04	MA34:B08	32.35294118	0	0	34
77	1209	M00003858B:G01	MA24:E08	0	0	23.52941176	34
78	1214	M00022109B:A11	MA34:G08	0	0	32.35294118	34
79	1260	M00022921A:H05	MA22:F02	0	0	29.41176471	34
80	1282	M00001430D:H07	MA16:A02	73.52941176	11.76470588	0	34
81	1283	M00001360D:H10	MA14:B02	85.29411765	29.41176471	0	34
82	1284	M00001431A:E01	MA16:B02	41.17647059	5.882352941	2.941176471	34
83	1285	M00001361A:A02	MA14:C02	64.70588235	2.941176471	0	34
84	1295	M00001362A:B03	MA14:H02	44.11764706	2.941176471	0	34
85	1297	M00001376C:C01	MA14:A08	0	0	76.47058824	34
86	1300	M00001449A:D02	MA16:B08	55.88235294	2.941176471	0	34
87	1301	M00001378B:A02	MA14:C08	67.64705882	2.941176471	0	34
88	1302	M00001450A:D12	MA16:C08	26.47058824	0	0	34
89	1303	M00001378C:D08	MA14:D08	50	0	0	34
90	1310	M00001451D:F01	MA16:G08	44.11764706	8.823529412	0	34
91	1349	M00006628B:A02	MA241:C02	20.58823529	0	0	34
92	1444	M00026926C:F03	MA40:B03	73.52941176	11.76470588	0	34
93	1458	M00026963B:H03	MA40:A09	0	0	29.41176471	34
94	1464	M00026964A:E10	MA40:D09	29.41176471	5.882352941	0	34
95	1468	M00026965C:A11	MA40:F09	67.64705882	26.47058824	0	34
96	1493	M00001398A:D11	MA244:C09	50	2.941176471	0	34
97	1512	M00008095C:H08	MA31:D03	20.58823529	5.882352941	2.941176471	34
98	1523	M00007942A:F12	MA27:B09	52.94117647	5.882352941	0	34

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
99	1554	M00004212B:B12	MA25:A09	0	0	20.58823529	34
100	1576	M00008014C:E11	MA29:D05	0	0	23.52941176	34
101	1578	M00008015A:B05	MA29:E05	58.82352941	2.941176471	0	34
102	1586	M00022049A:B08	MA33:A05	29.41176471	0	0	34
103	1602	M00026856B:F08	MA39:A03	0	0	50	34
104	1604	M00026856C:H12	MA39:B03	0	0	32.35294118	34
105	1628	M00026900D:A03	MA39:F09	50	5.882352941	0	34
106	1630	M00026900D:C12	MA39:G09	52.94117647	8.823529412	0	34
107	1632	M00026901D:A03	MA39:H09	32.35294118	5.882352941	5.882352941	34
108	1642	M00001393A:G03	MA15:E03	50	0	0	34
109	1656	M00001409B:D03	MA15:D09	29.41176471	2.941176471	0	34
110	1658	M00001409B:G01	MA15:E09	55.88235294	8.823529412	0	34
111	1660	M00001410C:C09	MA15:F09	41.17647059	0	0	34
112	1662	M00001410D:A03	MA15:G09	26.47058824	11.76470588	11.76470588	34
113	1697	M00005504D:F06	MA242:A03	0	0	23.52941176	34
114	1709	M00005510D:H10	MA242:G03	0	0	32.35294118	34
115	1726	M00006990D:D06	MA240:G09	38.23529412	2.941176471	0	34
116	1761	SL146	MA248:A03	0	0	20.58823529	34
117	1775	SL153	MA248:H03	0	0	23.52941176	34
118	1785	SL198	MA248:E09	0	0	67.64705882	34
119	1787	SL199	MA248:F09	0	0	26.47058824	34
120	1789	SL200	MA248:G09	0	0	32.35294118	34
121	1797	M00023283D:C03	MA36:C03	26.47058824	5.882352941	0	34
122	1799	M00023283D:D03	MA36:D03	0	0	85.29411765	34
123	1801	M00023284A:D09	MA36:E03	70.58823529	8.823529412	2.941176471	34
124	1807	M00023285D:C05	MA36:H03	67.64705882	29.41176471	0	34
125	1809	M00023306C:H11	MA36:A09	41.17647059	0	0	34
126	1813	M00023308D:B06	MA36:C09	32.35294118	5.882352941	11.76470588	34
127	1817	M00023309D:H04	MA36:E09	0	0	23.52941176	34
128	1819	M00023310A:D07	MA36:F09	0	0	29.41176471	34
129	1875	M00008079C:H04	MA30:B09	20.58823529	11.76470588	2.941176471	34
130	1883	M00008080B:B10	MA30:F09	20.58823529	14.70588235	0	34
131	1884	M00022198D:C02	MA35:F09	23.52941176	8.823529412	0	34
132	1886	M00022198D:G03	MA35:G09	38.23529412	8.823529412	0	34
133	1895	M00003768B:B09	MA24:D03	58.82352941	2.941176471	0	34
134	1910	M00022110C:A08	MA34:C09	0	0	26.47058824	34
135	1913	M00003886C:H08	MA24:E09	0	0	20.58823529	34
136	1960	M00023297B:A10	MA22:D03	5.882352941	2.941176471	52.94117647	34
137	1966	M00023314C:G05	MA22:G03	20.58823529	0	0	34
138	1991	M00001363B:C04	MA14:D03	0	0	47.05882353	34
139	1992	M00001434D:F08	MA16:D03	73.52941176	8.823529412	0	34
140	1994	M00001435B:A04	MA16:E03	23.52941176	5.882352941	0	34
141	1996	M00001435B:B09	MA16:F03	55.88235294	5.882352941	0	34
142	2000	M00001435C:F08	MA16:H03	58.82352941	11.76470588	0	34
143	2001	M00001381A:F03	MA14:A09	47.05882353	8.823529412	0	34
144	2004	M00001453B:E11	MA16:B09	29.41176471	2.941176471	0	34
145	2008	M00001453C:D02	MA16:D09	61.76470588	5.882352941	0	34
146	2050	M00007121D:A05	MA243:A03	35.29411765	0	0	34
147	2052	M00007122C:F03	MA243:B03	26.47058824	0	0	34

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
148	2053	M00006638A:G02	MA241:C03	47.05882353	0	0	34
149	2059	M00006639B:H09	MA241:F03	0	0	32.35294118	34
150	2064	M00007127C:C11	MA243:H03	2.941176471	0	20.58823529	34
151	2073	M00006720D:C11	MA241:E09	47.05882353	5.882352941	0	34
152	2075	M00006728C:E07	MA241:F09	38.23529412	0	0	34
153	2156	M00026931D:E08	MA40:F04	32.35294118	5.882352941	0	34
154	2158	M00026932D:B08	MA40:G04	58.82352941	5.882352941	0	34
155	2168	M00026969D:D02	MA40:D10	29.41176471	2.941176471	0	34
156	2169	M00023393B:E02	MA37:E10	35.29411765	2.941176471	0	34
157	2185	M00003782D:D06	MA244:E04	32.35294118	0	0	34
158	2189	M00004105D:B04	MA244:G04	67.64705882	20.58823529	0	34
159	2199	M00001556D:B11	MA244:D10	0	0	23.52941176	34
160	2234	M00021664B:G03	MA31:E10	0	0	32.35294118	34
161	2242	M00004078A:A07		0	0	20.58823529	34
162	2263	M00001561A:B03	MA23:D10	0	0	20.58823529	34
163	2284	M00008023C:A06	MA29:F07	32.35294118	0	0	34
164	2286	M00008024C:F02	MA29:G07	61.76470588	5.882352941	0	34
165	2288	M00008024C:G06	MA29:H07	2.941176471	0	23.52941176	34
166	2292	M00022057C:H10	MA33:B07	55.88235294	2.941176471	0	34
167	2294	M00022059B:B06	MA33:C07	2.941176471	0	58.82352941	34
168	2324	M00026902B:F10	MA39:B10	26.47058824	8.823529412	23.52941176	34
169	2342	M00001394D:B08	MA15:C04	23.52941176	2.941176471	0	34
170	2354	M00001415A:G05	MA15:A10	41.17647059	0	0	34
171	2356	M00001416B:E03	MA15:B10	50	5.882352941	0	34
172	2368	M00001421B:B12	MA15:H10	47.05882353	2.941176471	0	34
173	2413	M00005528C:E02	MA242:G04	50	0	0	34
174	2513	M00023312D:F10	MA36:A10	41.17647059	5.882352941	0	34
175	2566	M00022157A:C06	MA35:C04	35.29411765	0	0	34
176	2576	M00022165A:A11	MA35:H04	44.11764706	8.823529412	0	34
177	2584	M00022206A:B10	MA35:D10	0	0	67.64705882	34
178	2601	M00003811B:F09		26.47058824	2.941176471	0	34
179	2605	M00003812D:A11		73.52941176	11.76470588	0	34
180	2606	M00022088D:C10	MA34:G04	29.41176471	0	0	34
181	2613	M00003910B:C12		20.58823529	2.941176471	0	34
182	2689	M00001366A:F06	MA14:A04	23.52941176	0	0	34
183	2692	M00001435C:F12	MA16:B04	58.82352941	5.882352941	0	34
184	2694	M00001436B:E11	MA16:C04	41.17647059	2.941176471	11.76470588	34
185	2695	M00001366B:E01	MA14:D04	38.23529412	2.941176471	0	34
186	2696	M00001436C:C03	MA16:D04	35.29411765	2.941176471	0	34
187	2700	M00001437A:B01	MA16:F04	26.47058824	0	0	34
188	2702	M00001437B:B08	MA16:G04	67.64705882	8.823529412	0	34
189	2712	M00001467B:H05		64.70588235	5.882352941	0	34
190	2716	M00001468A:D02	MA16:F10	0	0	20.58823529	34
191	2756	M00007131B:B11	MA243:B04	23.52941176	2.941176471	0	34
192	2761	M00006650A:A10	MA241:E04	0	0	23.52941176	34
193	2765	M00006653C:B09	MA241:G04	55.88235294	14.70588235	0	34
194	2766	M00007154B:H08	MA243:G04	0	0	47.05882353	34
195	2769	M00006740A:E02	MA241:A10	0	0	32.35294118	34
196	2770	M00021621A:D04	MA243:A10	58.82352941	2.941176471	0	34

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
197	2771	M00006740B:F11	MA241:B10	0	0	20.58823529	34
198	2773	M00006741C:A01	MA241:C10	50	2.941176471	0	34
199	2780	M00022171C:A04	MA243:F10	29.41176471	0	0	34
200	2858	M00026937C:B08	MA40:E05	23.52941176	8.823529412	0	34
201	2861	M00023367A:H06	MA37:G05	61.76470588	0	0	34
202	2876	M00026985C:E12	MA40:F11	29.41176471	2.941176471	0	34
203	2916	M00008100A:A07	MA31:B05	41.17647059	2.941176471	0	34
204	2921	M00007936B:H07	MA27:E05	47.05882353	5.882352941	2.941176471	34
205	2924	M00008100C:E05	MA31:F05	20.58823529	0	0	34
206	2937	M00007947B:B02	MA27:E11	61.76470588	0	0	34
207	2956	M00004105A:C09	MA25:F05	52.94117647	0	0	34
208	2957	M00001433C:D09	MA23:G05	29.41176471	14.70588235	0	34
209	2980	M00008027B:D09	MA29:B09	0	0	64.70588235	34
210	2984	M00008028D:B01	MA29:D09	0	0	26.47058824	34
211	2988	M00008039A:C09	MA29:F09	52.94117647	5.882352941	0	34
212	3026	M00026905A:A10	MA39:A11	29.41176471	0	5.882352941	34
213	3030	M00026905D:C05	MA39:C11	0	0	35.29411765	34
214	3054	M00001401B:A06	MA15:G05	52.94117647	0	0	34
215	3056	M00001402A:A08	MA15:H05	61.76470588	2.941176471	0	34
216	3105	M00005534C:E12	MA242:A05	0	0	26.47058824	34
217	3111	M00005542A:D09	MA242:D05	47.05882353	0	0	34
218	3132	M00007031D:E02	MA240:F11	23.52941176	2.941176471	0	34
219	3134	M00007032A:D04	MA240:G11	26.47058824	5.882352941	0	34
220	3135	M00005813C:F12	MA242:H11	23.52941176	2.941176471	0	34
221	3171	SL163	MA248:B05	0	0	32.35294118	34
222	3173	SL164	MA248:C05	0	0	20.58823529	34
223	3179	SL167	MA248:F05	0	0	32.35294118	34
224	3181	SL168	MA248:G05	0	0	26.47058824	34
225	3183	SL169	MA248:H05	0	0	20.58823529	34
226	3231	M00023320B:A03	MA36:H11	44.11764706	8.823529412	0	34
227	3238	M00005350B:F10	MA246:C05	35.29411765	0	0	34
228	3267	M00008069D:F01	MA30:B05	20.58823529	2.941176471	0	34
229	3268	M00022165B:C08	MA35:B05	20.58823529	2.941176471	0	34
230	3272	M00022165C:E12	MA35:D05	50	2.941176471	0	34
231	3274	M00022166C:E07	MA35:E05	0	0	23.52941176	34
232	3275	M00008072D:E12	MA30:F05	35.29411765	20.58823529	2.941176471	34
233	3282	M00022211B:D05	MA35:A11	20.58823529	11.76470588	0	34
234	3293	M00008089A:E09	MA30:G11	20.58823529	17.64705882	0	34
235	3317	M00003974D:E04	MA24:C11	2.941176471	0	55.88235294	34
236	3323	M00003980D:F10	MA24:F11	47.05882353	11.76470588	0	34
237	3327	M00003984D:C08	MA24:H11	20.58823529	0	0	34
238	3370	M00023373D:A01	MA22:E05	0	0	88.23529412	34
239	3376	M00023396D:D01	MA22:H05	0	0	38.23529412	34
240	3394	M00001437D:E12	MA16:A05	5.882352941	0	47.05882353	34
241	3396	M00001438A:B09	MA16:B05	5.882352941	0	44.11764706	34
242	3401	M00001369A:C07	MA14:E05	76.47058824	14.70588235	0	34
243	3404	M00001439C:A07	MA16:F05	55.88235294	5.882352941	0	34
244	3407	M00001369C:A05	MA14:H05	38.23529412	5.882352941	0	34
245	3410	M00001468D:B11	MA16:A11	44.11764706	0	0	34

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
246	3411	M00001386B:F08	MA14:B11	23.52941176	0	0	34
247	3419	M00001387A:A08	MA14:F11	73.52941176	20.58823529	2.941176471	34
248	3460	M00007163A:B10	MA243:B05	32.35294118	2.941176471	0	34
249	3465	M00006675C:A06	MA241:E05	0	0	35.29411765	34
250	3470	M00007191C:A06	MA243:G05	58.82352941	8.823529412	0	34
251	3471	M00006678A:D02	MA241:H05	26.47058824	2.941176471	0	34
252	3562	M00026941C:A12	MA40:E06	50	23.52941176	0	34
253	3578	M00026996A:E01	MA40:E12	20.58823529	0	0	34
254	3581	M00023401B:E06	MA37:G12	0	0	35.29411765	34
255	3584	M00027005B:D03	MA40:H12	0	0	20.58823529	34
256	3621	M00007937B:A02	MA27:C06	23.52941176	17.64705882	0	34
257	3622	M00021612C:E11	MA31:C06	0	0	32.35294118	34
258	3629	M00007938C:C12	MA27:G06	35.29411765	0	0	34
259	3675	M00001623C:A06	MA23:F12	61.76470588	5.882352941	0	34
260	3677	M00001630D:A11	MA23:G12	0	0	64.70588235	34
261	3682	M00008044B:E11	MA29:A11	41.17647059	0	0	34
262	3684	M00008044C:C10	MA29:B11	32.35294118	20.58823529	0	34
263	3686	M00008044D:B08	MA29:C11	58.82352941	29.41176471	0	34
264	3688	M00008044D:C05	MA29:D11	50	2.941176471	0	34
265	3706	M00022074C:A04	MA33:E11	0	0	32.35294118	34
266	3738	M00026910C:D12	MA39:E12	0	0	70.58823529	34
267	3742	M00026913A:D06	MA39:G12	50	8.823529412	0	34
268	3752	M00001402C:H08	MA15:D06	67.64705882	11.76470588	0	34
269	3756	M00001404C:C11	MA15:F06	70.58823529	20.58823529	0	34
270	3813	M00005587B:G05	MA242:C06	50	0	0	34
271	3814	M00006934D:D10	MA240:C06	0	0	29.41176471	34
272	3885	SL176	MA248:G06	0	0	20.58823529	34
273	3905	M00023295D:E05	MA36:A06	50	2.941176471	0	34
274	3921	M00023320B:C02	MA36:A12	0	0	44.11764706	34
275	3956	M00005401B:F12	MA246:B12	0	0	23.52941176	34
276	3979	M00008074D:C05	MA30:F06	26.47058824	11.76470588	11.76470588	34
277	3982	M00022175B:F06	MA35:G06	38.23529412	23.52941176	0	34
278	3998	M00022230B:C10	MA35:G12	41.17647059	5.882352941	0	34
279	4006	M00022093C:C08	MA34:C06	70.58823529	0	0	34
280	4008	M00022093C:C12	MA34:D06	20.58823529	0	26.47058824	34
281	4028	M00022132A:H07	MA34:F12	0	0	32.35294118	34
282	4066	M00023397B:D04	MA22:A06	32.35294118	0	0	34
283	4074	M00023399D:G04	MA22:E06	29.41176471	0	2.941176471	34
284	4098	M00001439D:C09	MA16:A06	41.17647059	0	0	34
285	4100	M00001441A:A09	MA16:B06	0	0	58.82352941	34
286	4101	M00001369D:E02	MA14:C06	26.47058824	2.941176471	0	34
287	4105	M00001371D:H10	MA14:E06	38.23529412	2.941176471	5.882352941	34
288	4107	M00001372A:D01	MA14:F06	47.05882353	2.941176471	0	34
289	4110	M00001444C:F03	MA16:G06	52.94117647	2.941176471	0	34
290	4112	M00001445A:B02		50	0	0	34
291	4119	M00001388D:F11	MA14:D12	47.05882353	0	0	34
292	4124	M00001481C:A12	MA16:F12	38.23529412	0	0	34
293	4125	M00001389B:B05	MA14:G12	0	0	20.58823529	34
294	4127	M00001389C:G01	MA14:H12	26.47058824	5.882352941	2.941176471	34

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
295	4128	M00001482D:D11	MA16:H12	64.70588235	5.882352941	0	34
296	4183	M00006809B:F04	MA241:D12	0	0	26.47058824	34
297	8513	I:3325119:07A01:A01	MA127:A01	2.173913043	0	23.91304348	46
298	8517	I:3033345:07A01:C01	MA127:C01	43.47826087	2.173913043	0	46
299	8537	I:3176222:07A01:E07	MA127:E07	2.173913043	0	34.7826087	46
300	8542	I:2510627:07B01:G07	MA129:G07	28.26086957	0	0	46
301	8546	I:1705208:06B01:A01	MA125:A01	8.695652174	4.347826087	23.91304348	46
302	8566	I:1672781:06B01:C07	MA125:C07	32.60869565	4.347826087	0	46
303	8568	I:1712888:06B01:D07	MA125:D07	0	0	36.95652174	46
304	8570	I:1696224:06B01:E07	MA125:E07	13.04347826	4.347826087	39.13043478	46
305	8576	I:3935034:06B01:H07	MA125:H07	34.7826087	2.173913043	0	46
306	8617	I:1800114:03A01:E01	MA111:E01	0	0	80.43478261	46
307	8631	I:1976029:03A01:D07	MA111:D07	54.34782609	2.173913043	0	46
308	8634	I:1439934:03B01:E07	MA113:E07	4.347826087	0	26.08695652	46
309	8645	I:2512879:01A01:C01	MA103:C01	2.173913043	0	86.95652174	46
310	8660	I:2900277:01B01:B07	MA105:B07	23.91304348	10.86956522	23.91304348	46
311	8661	I:1479255:01A01:C07	MA103:C07	4.347826087	0	26.08695652	46
312	8738	I:2648612:04B01:A01	MA117:A01	60.86956522	13.04347826	0	46
313	8741	I:1889867:04A01:C01	MA115:C01	23.91304348	2.173913043	0	46
314	8743	I:1858905:04A01:D01	MA115:D01	4.347826087	0	21.73913043	46
315	8752	I:2591494:04B01:H01	MA117:H01	0	0	89.13043478	46
316	8754	I:2916261:04B01:A07	MA117:A07	28.26086957	2.173913043	0	46
317	8756	I:2397815:04B01:B07	MA117:B07	34.7826087	6.52173913	0	46
318	8760	I:2182095:04B01:D07	MA117:D07	23.91304348	15.2173913	8.695652174	46
319	8769	I:2506194:02A01:A01	MA107:A01	36.95652174	2.173913043	0	46
320	8773	I:1806219:02A01:C01	MA107:C01	0	0	82.60869565	46
321	8797	I:1729724:02A01:G07	MA107:G07	0	0	21.73913043	46
322	8845	I:1886842:05A02:G01	MA120:G01	34.7826087	2.173913043	2.173913043	46
323	8851	I:1352669:05A02:B07	MA120:B07	0	0	23.91304348	46
324	8854	I:1755847:05B02:C07	MA122:C07	2.173913043	0	21.73913043	46
325	8856	I:1803418:05B02:D07	MA122:D07	0	0	34.7826087	46
326	8860	I:1568725:05B02:F07	MA122:F07	2.173913043	0	21.73913043	46
327	8861	I:1857708:05A02:G07	MA120:G07	34.7826087	10.86956522	0	46
328	8862	I:1687060:05B02:G07	MA122:G07	8.695652174	0	28.26086957	46
329	8881	I:3407289:07A02:A07	MA128:A07	0	0	43.47826087	46
330	8883	I:1235535:07A02:B07	MA128:B07	23.91304348	2.173913043	2.173913043	46
331	8984	I:1525795:03B02:D07	MA114:D07	39.13043478	2.173913043	0	46
332	8991	I:3744592:03A02:H07	MA112:H07	28.26086957	0	0	46
333	8995	I:1485817:01A02:B01	MA104:B01	41.30434783	4.347826087	0	46
334	8996	I:2365149:01B02:B01	MA106:B01	2.173913043	0	30.43478261	46
335	8999	I:1439677:01A02:D01	MA104:D01	0	0	26.08695652	46
336	9006	I:2372275:01B02:G01	MA106:G01	23.91304348	8.695652174	0	46
337	9008	I:3211615:01B02:H01	MA106:H01	2.173913043	0	23.91304348	46
338	9012	I:2368282:01B02:B07	MA106:B07	21.73913043	8.695652174	23.91304348	46
339	9095	I:1737833:04A02:D01	MA116:D01	34.7826087	0	0	46
340	9100	I:2382192:04B02:F01	MA118:F01	28.26086957	21.73913043	2.173913043	46
341	9111	I:1958902:04A02:D07	MA116:D07	21.73913043	4.347826087	2.173913043	46
342	9118	I:1704472:04B02:G07	MA118:G07	26.08695652	0	0	46
343	9119	I:1903767:04A02:H07	MA116:H07	32.60869565	6.52173913	2.173913043	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
344	9125	I:1268080:02A02:C01	MA108:C01	0	0	45.65217391	46
345	9141	I:1347384:02A02:C07	MA108:C07	0	0	28.26086957	46
346	9168	I:2344817:08B01:H02	MA133:H02	0	0	28.26086957	46
347	9171	I:3236109:08A01:B08	MA131:B08	2.173913043	0	32.60869565	46
348	9247	I:2832506:07A01:H08	MA127:H08	56.52173913	6.52173913	0	46
349	9252	I:1673876:06B01:B02	MA125:B02	45.65217391	6.52173913	0	46
350	9258	I:3686211:06B01:E02	MA125:E02	0	0	26.08695652	46
351	9264	I:2449837:06B01:H02	MA125:H02	45.65217391	2.173913043	0	46
352	9270	I:1613874:06B01:C08	MA125:C08	28.26086957	2.173913043	0	46
353	9317	I:1813409:03A01:C02	MA111:C02	36.95652174	8.695652174	6.52173913	46
354	9329	I:1975514:03A01:A08	MA111:A08	4.347826087	0	28.26086957	46
355	9347	I:1403294:01A01:B02	MA103:B02	0	0	43.47826087	46
356	9352	I:2414624:01B01:D02	MA105:D02	34.7826087	17.39130435	0	46
357	9360	I:2901811:01B01:H02	MA105:H02	0	0	47.82608696	46
358	9364	I:2683564:01B01:B08	MA105:B08	23.91304348	4.347826087	8.695652174	46
359	9366	I:2725511:01B01:C08	MA105:C08	0	0	30.43478261	46
360	9441	I:1431273:04A01:A02	MA115:A02	0	0	45.65217391	46
361	9442	I:1636639:04B01:A02	MA117:A02	6.52173913	0	26.08695652	46
362	9448	I:2455617:04B01:D02	MA117:D02	28.26086957	8.695652174	0	46
363	9452	I:2952504:04B01:F02	MA117:F02	39.13043478	2.173913043	0	46
364	9457	I:1483847:04A01:A08	MA115:A08	43.47826087	2.173913043	0	46
365	9460	I:2923150:04B01:B08	MA117:B08	21.73913043	15.2173913	8.695652174	46
366	9467	I:1813133:04A01:F08	MA115:F08	47.82608696	4.347826087	0	46
367	9472	I:2510171:04B01:H08	MA117:H08	34.7826087	4.347826087	26.08695652	46
368	9487	I:2190284:02A01:H02	MA107:H02	36.95652174	4.347826087	0	46
369	9540	I:1522716:05B02:B02	MA122:B02	21.73913043	2.173913043	19.56521739	46
370	9549	I:1901271:05A02:G02	MA120:G02	2.173913043	0	30.43478261	46
371	9552	I:1820522:05B02:H02	MA122:H02	30.43478261	0	2.173913043	46
372	9553	I:2365295:05A02:A08	MA120:A08	10.86956522	4.347826087	56.52173913	46
373	9557	I:1335140:05A02:C08	MA120:C08	50	0	2.173913043	46
374	9560	I:1822577:05B02:D08	MA122:D08	39.13043478	4.347826087	4.347826087	46
375	9618	I:1306814:06B02:A08	MA126:A08	28.26086957	2.173913043	4.347826087	46
376	9624	I:3034694:06B02:D08	MA126:D08	36.95652174	4.347826087	2.173913043	46
377	9666	I:1453049:03B02:A02	MA114:A02	2.173913043	0	32.60869565	46
378	9672	I:1453748:03B02:D02	MA114:D02	0	0	21.73913043	46
379	9677	I:3001492:03A02:G02	MA112:G02	2.173913043	0	21.73913043	46
380	9685	I:3876715:03A02:C08	MA112:C08	2.173913043	0	23.91304348	46
381	9687	I:2992851:03A02:D08	MA112:D08	0	0	26.08695652	46
382	9694	I:1500649:03B02:G08	MA114:G08	36.95652174	6.52173913	0	46
383	9699	I:1512943:01A02:B02	MA104:B02	0	0	23.91304348	46
384	9703	I:1467565:01A02:D02	MA104:D02	41.30434783	0	0	46
385	9720	I:2455118:01B02:D08	MA106:D08	50	10.86956522	0	46
386	9722	I:2840251:01B02:E08	MA106:E08	0	0	23.91304348	46
387	9770	I:2911347:10B02:E02	MA67:E02	2.173913043	0	36.95652174	46
388	9790	I:1812030:10B02:G08	MA67:G08	0	0	26.08695652	46
389	9820	I:2663606:04B02:F08	MA118:F08	36.95652174	0	2.173913043	46
390	9833	I:1308333:02A02:E02	MA108:E02	0	0	67.39130435	46
391	9834	I:1578941:02B02:E02	MA110:E02	0	0	36.95652174	46
392	9847	I:1535439:02A02:D08	MA108:D08	56.52173913	6.52173913	0	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
393	9856	I:1857475:02B02:H08	MA110:H08	0	0	34.7826087	46
394	9884	I:2908878:08B01:F09	MA133:F09	2.173913043	0	36.95652174	46
395	9925	I:2830575:07A01:C03	MA127:C03	32.60869565	0	0	46
396	9934	I:1557906:07B01:G03	MA129:G03	8.695652174	4.347826087	34.7826087	46
397	9964	I:2200604:06B01:F03	MA125:F03	34.7826087	0	0	46
398	9973	I:1653326:06A01:C09	MA123:C09	21.73913043	0	2.173913043	46
399	9981	I:1720149:06A01:G09	MA123:G09	2.173913043	0	52.17391304	46
400	10030	I:1560987:03B01:G03	MA113:G03	0	0	43.47826087	46
401	10046	I:1510714:03B01:G09	MA113:G09	0	0	65.2173913	46
402	10050	I:2501484:01B01:A03	MA105:A03	0	0	21.73913043	46
403	10051	I:1379063:01A01:B03	MA103:B03	2.173913043	0	41.30434783	46
404	10054	I:2797902:01B01:C03	MA105:C03	0	0	39.13043478	46
405	10062	I:1805613:01B01:G03	MA105:G03	0	0	78.26086957	46
406	10063	I:1524885:01A01:H03	MA103:H03	67.39130435	13.04347826	0	46
407	10064	I:2888464:01B01:H03	MA105:H03	2.173913043	0	58.69565217	46
408	10148	I:1992788:04B01:B03	MA117:B03	41.30434783	0	0	46
409	10155	I:1413451:04A01:F03	MA115:F03	0	0	50	46
410	10166	I:2779515:04B01:C09	MA117:C09	78.26086957	19.56521739	0	46
411	10206	I:1583076:02B01:G09	MA109:G09	2.173913043	0	69.56521739	46
412	10243	I:3070110:05A02:B03	MA120:B03	2.173913043	0	30.43478261	46
413	10255	I:1904493:05A02:H03	MA120:H03	30.43478261	4.347826087	2.173913043	46
414	10257	I:2860815:05A02:A09	MA120:A09	4.347826087	2.173913043	67.39130435	46
415	10285	I:1930135:07A02:G03	MA128:G03	4.347826087	4.347826087	67.39130435	46
416	10318	I:3747901:06B02:G03	MA126:G03	34.7826087	2.173913043	0	46
417	10321	I:1720946:06A02:A09	MA124:A09	39.13043478	2.173913043	0	46
418	10328	I:2877413:06B02:D09	MA126:D09	21.73913043	4.347826087	0	46
419	10330	I:3035279:06B02:E09	MA126:E09	32.60869565	0	0	46
420	10393	I:2503913:03A02:E09	MA112:E09	21.73913043	4.347826087	19.56521739	46
421	10403	I:1517380:01A02:B03	MA104:B03	0	0	23.91304348	46
422	10406	I:3138128:01B02:C03	MA106:C03	2.173913043	0	23.91304348	46
423	10409	I:2453722:01A02:E03	MA104:E03	21.73913043	0	2.173913043	46
424	10417	I:1414260:01A02:A09	MA104:A09	0	0	41.30434783	46
425	10418	I:2891247:01B02:A09	MA106:A09	26.08695652	0	2.173913043	46
426	10427	I:1682176:01A02:F09	MA104:F09	0	0	32.60869565	46
427	10503	I:2739076:04A02:D03	MA116:D03	73.91304348	10.86956522	0	46
428	10508	I:1900378:04B02:F03	MA118:F03	0	0	30.43478261	46
429	10509	I:1603391:04A02:G03	MA116:G03	36.95652174	0	0	46
430	10517	I:2018222:04A02:C09	MA116:C09	34.7826087	6.52173913	4.347826087	46
431	10523	I:1327263:04A02:F09	MA116:F09	0	0	43.47826087	46
432	10547	I:1734393:02A02:B09	MA108:B09	0	0	91.30434783	46
433	10553	I:2190607:02A02:E09	MA108:E09	45.65217391	0	0	46
434	10569	I:2447969:08A01:E04	MA131:E04	2.173913043	0	23.91304348	46
435	10592	I:1753033:08B01:H10	MA133:H10	32.60869565	26.08695652	0	46
436	10650	I:2456393:07B01:E10	MA129:E10	0	0	23.91304348	46
437	10658	I:1719920:06B01:A04	MA125:A04	0	0	26.08695652	46
438	10672	I:2927362:06B01:H04	MA125:H04	34.7826087	2.173913043	2.173913043	46
439	10684	I:4082816:06B01:F10	MA125:F10	52.17391304	13.04347826	2.173913043	46
440	10721	I:1803446:03A01:A04	MA111:A04	32.60869565	0	0	46
441	10725	I:1557490:03A01:C04	MA111:C04	41.30434783	0	0	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
442	10746	I:1445895:03B01:E10	MA113:E10	2.173913043	0	23.91304348	46
443	10767	I:1336836:01A01:H04	MA103:H04	0	0	32.60869565	46
444	10778	I:1802745:01B01:E10	MA105:E10	2.173913043	0	23.91304348	46
445	10784	I:2503003:01B01:H10	MA105:H10	23.91304348	2.173913043	4.347826087	46
446	10827	I:1655377:10A01:F04	MA64:F04	0	0	43.47826087	46
447	10849	I:1430662:04A01:A04	MA115:A04	30.43478261	2.173913043	0	46
448	10861	I:3335055:04A01:G04	MA115:G04	45.65217391	2.173913043	0	46
449	10868	I:2457671:04B01:B10	MA117:B10	47.82608696	4.347826087	0	46
450	10901	I:1641421:02A01:C10	MA107:C10	0	0	47.82608696	46
451	10906	I:1655225:02B01:E10	MA109:E10	21.73913043	0	0	46
452	10947	I:1313325:05A02:B04	MA120:B04	23.91304348	6.52173913	0	46
453	10962	I:1558081:05B02:A10	MA122:A10	0	0	41.30434783	46
454	10975	I:1889191:05A02:H10	MA120:H10	26.08695652	2.173913043	2.173913043	46
455	10997	I:3495906:07A02:C10	MA128:C10	2.173913043	0	21.73913043	46
456	11095	I:3704132:03A02:D10	MA112:D10	0	0	30.43478261	46
457	11100	I:1636553:03B02:F10	MA114:F10	0	0	28.26086957	46
458	11104	I:1402228:03B02:H10	MA114:H10	45.65217391	8.695652174	0	46
459	11107	I:1361963:01A02:B04	MA104:B04	30.43478261	0	0	46
460	11111	I:1510424:01A02:D04	MA104:D04	39.13043478	34.7826087	2.173913043	46
461	11112	I:2918558:01B02:D04	MA106:D04	0	0	26.08695652	46
462	11127	I:1731061:01A02:D10	MA104:D10	45.65217391	8.695652174	2.173913043	46
463	11201	I:2579602:04A02:A04	MA116:A04	60.86956522	10.86956522	0	46
464	11202	I:2824181:04B02:A04	MA118:A04	36.95652174	4.347826087	0	46
465	11203	I:2123183:04A02:B04	MA116:B04	26.08695652	0	0	46
466	11221	I:1958560:04A02:C10	MA116:C10	10.86956522	2.173913043	28.26086957	46
467	11229	I:1447903:04A02:G10	MA116:G10	43.47826087	2.173913043	0	46
468	11257	I:1875576:02A02:E10	MA108:E10	54.34782609	0	0	46
469	11262	I:1709457:02B02:G10	MA110:G10	26.08695652	2.173913043	0	46
470	11278	I:2155675:08B01:G05	MA133:G05	0	0	23.91304348	46
471	11329	I:1635069:07A01:A05	MA127:A05	0	0	73.91304348	46
472	11341	I:1453445:07A01:G05	MA127:G05	2.173913043	0	34.7826087	46
473	11351	I:3002566:07A01:D11	MA127:D11	45.65217391	10.86956522	0	46
474	11365	I:1631511:06A01:C05	MA123:C05	0	0	26.08695652	46
475	11375	I:1610523:06A01:H05	MA123:H05	39.13043478	8.695652174	0	46
476	11386	I:3297656:06B01:E11	MA125:E11	52.17391304	10.86956522	2.173913043	46
477	11392	I:2509730:06B01:H11	MA125:H11	28.26086957	4.347826087	0	46
478	11432	I:2121863:03B01:D05	MA113:D05	17.39130435	4.347826087	21.73913043	46
479	11434	I:1413704:03B01:E05	MA113:E05	34.7826087	4.347826087	0	46
480	11441	I:1626232:03A01:A11	MA111:A11	10.86956522	10.86956522	32.60869565	46
481	11460	I:2354446:01B01:B05	MA105:B05	0	0	23.91304348	46
482	11466	I:2916753:01B01:E05	MA105:E05	41.30434783	6.52173913	0	46
483	11473	I:2555034:01A01:A11	MA103:A11	2.173913043	0	26.08695652	46
484	11480	I:2804190:01B01:D11	MA105:D11	0	0	50	46
485	11481	I:1814488:01A01:E11	MA103:E11	41.30434783	0	0	46
486	11482	I:2474163:01B01:E11	MA105:E11	0	0	95.65217391	46
487	11485	I:1402967:01A01:G11	MA103:G11	43.47826087	6.52173913	0	46
488	11543	I:2821541:10A01:D11	MA64:D11	2.173913043	0	23.91304348	46
489	11554	I:2888814:04B01:A05	MA117:A05	54.34782609	6.52173913	0	46
490	11557	I:1451005:04A01:C05	MA115:C05	34.7826087	2.173913043	0	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
491	11567	I:1457726:04A01:H05	MA115:H05	0	0	30.43478261	46
492	11568	I:2883195:04B01:H05	MA117:H05	58.69565217	6.52173913	4.347826087	46
493	11581	I:1603605:04A01:G11	MA115:G11	2.173913043	0	21.73913043	46
494	11583	I:2832224:04A01:H11	MA115:H11	43.47826087	2.173913043	2.173913043	46
495	11585	I:2231364:02A01:A05	MA107:A05	0	0	73.91304348	46
496	11612	I:1595081:02B01:F11	MA109:F11	0	0	32.60869565	46
497	11654	I:1877913:05B02:C05	MA122:C05	0	0	39.13043478	46
498	11660	I:1666130:05B02:F05	MA122:F05	30.43478261	6.52173913	0	46
499	11664	I:1709995:05B02:H05	MA122:H05	45.65217391	4.347826087	0	46
500	11683	I:3872557:07A02:B05	MA128:B05	15.2173913	0	26.08695652	46
501	11705	I:2734906:07A02:E11	MA128:E11	28.26086957	0	2.173913043	46
502	11715	I:1798585:06A02:B05	MA124:B05	0	0	39.13043478	46
503	11723	I:1683389:06A02:F05	MA124:F05	36.95652174	4.347826087	0	46
504	11725	I:1704517:06A02:G05	MA124:G05	32.60869565	2.173913043	0	46
505	11728	I:2792982:06B02:H05	MA126:H05	0	0	39.13043478	46
506	11736	I:3511355:06B02:D11	MA126:D11	32.60869565	0	2.173913043	46
507	11777	I:1738060:03A02:A05	MA112:A05	45.65217391	2.173913043	2.173913043	46
508	11780	I:1810821:03B02:B05	MA114:B05	28.26086957	6.52173913	2.173913043	46
509	11785	I:2451279:03A02:E05	MA112:E05	26.08695652	4.347826087	0	46
510	11786	I:1431166:03B02:E05	MA114:E05	0	0	26.08695652	46
511	11794	I:2949427:03B02:A11	MA114:A11	91.30434783	67.39130435	0	46
512	11802	I:1458366:03B02:E11	MA114:E11	4.347826087	0	36.95652174	46
513	11806	I:1525881:03B02:G11	MA114:G11	0	0	32.60869565	46
514	11817	I:2071473:01A02:E05	MA104:E05	78.26086957	23.91304348	0	46
515	11829	I:2481012:01A02:C11	MA104:C11	26.08695652	2.173913043	2.173913043	46
516	11830	I:2816931:01B02:C11	MA106:C11	26.08695652	0	0	46
517	11836	I:1806769:01B02:F11	MA106:F11	0	0	84.7826087	46
518	11922	I:2636634:04B02:A11	MA118:A11	30.43478261	8.695652174	2.173913043	46
519	11962	I:1649959:02B02:E11	MA110:E11	2.173913043	0	21.73913043	46
520	11964	I:1633719:02B02:F11	MA110:F11	0	0	54.34782609	46
521	11966	I:1901035:02B02:G11	MA110:G11	34.7826087	2.173913043	0	46
522	11990	I:2503879:08B01:C12	MA133:C12	28.26086957	2.173913043	2.173913043	46
523	12036	I:2383065:07B01:B06	MA129:B06	39.13043478	4.347826087	0	46
524	12043	I:3357245:07A01:F06	MA127:F06	2.173913043	0	21.73913043	46
525	12045	I:2832314:07A01:G06	MA127:G06	54.34782609	6.52173913	2.173913043	46
526	12055	I:3667096:07A01:D12	MA127:D12	28.26086957	0	0	46
527	12071	I:1798283:06A01:D06	MA123:D06	21.73913043	0	2.173913043	46
528	12131	I:1648206:03A01:B06	MA111:B06	26.08695652	2.173913043	0	46
529	12148	I:3360476:03B01:B12	MA113:B12	0	0	26.08695652	46
530	12150	I:2500511:03B01:C12	MA113:C12	0	0	32.60869565	46
531	12152	I:1730806:03B01:D12	MA113:D12	30.43478261	4.347826087	0	46
532	12166	I:2479074:01B01:C06	MA105:C06	30.43478261	6.52173913	0	46
533	12170	I:1635004:01B01:E06	MA105:E06	0	0	89.13043478	46
534	12174	I:2378569:01B01:G06	MA105:G06	32.60869565	0	0	46
535	12183	I:2207849:01A01:D12	MA103:D12	21.73913043	6.52173913	6.52173913	46
536	12187	I:1504554:01A01:F12	MA103:F12	2.173913043	0	23.91304348	46
537	12258	I:2989991:04B01:A06	MA117:A06	32.60869565	6.52173913	6.52173913	46
538	12260	I:2852561:04B01:B06	MA117:B06	56.52173913	8.695652174	0	46
539	12277	I:2832839:04A01:C12	MA115:C12	45.65217391	4.347826087	0	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
540	12282	I:2845548:04B01:E12	MA117:E12	34.7826087	2.173913043	0	46
541	12292	I:1251819:02B01:B06	MA109:B06	36.95652174	4.347826087	0	46
542	12296	I:1672930:02B01:D06	MA109:D06	43.47826087	2.173913043	0	46
543	12298	I:2122820:02B01:E06	MA109:E06	2.173913043	0	26.08695652	46
544	12303	I:2174920:02A01:H06	MA107:H06	0	0	58.69565217	46
545	12362	I:1875994:05B02:E06	MA122:E06	30.43478261	2.173913043	2.173913043	46
546	12365	I:1858644:05A02:G06	MA120:G06	34.7826087	6.52173913	0	46
547	12425	I:1700047:06A02:E06	MA124:E06	28.26086957	4.347826087	0	46
548	12426	I:1718257:06B02:E06	MA126:E06	39.13043478	0	0	46
549	12427	I:1612306:06A02:F06	MA124:F06	32.60869565	4.347826087	0	46
550	12443	I:1637427:06A02:F12	MA124:F12	23.91304348	2.173913043	0	46
551	12499	I:2513883:03A02:B12	MA112:B12	0	0	89.13043478	46
552	12525	I:2645840:01A02:G06	MA104:G06	26.08695652	13.04347826	2.173913043	46
553	12529	I:1737403:01A02:A12	MA104:A12	0	0	50	46
554	12544	I:1733522:01B02:H12	MA106:H12	2.173913043	0	34.7826087	46
555	17049	RG:160664:10006:E07	MA155:E07	10	2.5	70	40
556	17065	I:747335:16A01:E01	MA87:E01	30	2.5	0	40
557	17071	I:2085191:16A01:H01	MA87:H01	0	0	30	40
558	17081	I:1211126:16A01:E07	MA87:E07	30	7.5	2.5	40
559	17157	RG:669310:10010:C01	MA159:C01	20	0	0	40
560	17167	RG:730402:10010:H01	MA159:H01	22.5	20	0	40
561	17174	RG:1047541:10012:C07	MA161:C07	22.5	2.5	0	40
562	17178	RG:1161753:10012:E07	MA161:E07	30	2.5	5	40
563	17194	I:1218464:17B01:E01	MA93:E01	0	0	35	40
564	17214	I:958633:17B01:G07	MA93:G07	45	2.5	0	40
565	17236	I:1602726:09B01:B07	MA137:B07	0	0	35	40
566	17379	RG:205212:10007:B01	MA156:B01	45	7.5	2.5	40
567	17395	RG:207395:10007:B07	MA156:B07	55	25	2.5	40
568	17422	I:349535:16B02:G01	MA90:G01	0	0	22.5	40
569	17423	I:2323525:16A02:H01	MA88:H01	0	0	20	40
570	17432	I:1965049:16B02:D07	MA90:D07	0	0	80	40
571	17437	I:2054436:16A02:G07	MA88:G07	2.5	0	22.5	40
572	17515	RG:1506197:10013:F01	MA162:F01	37.5	7.5	0	40
573	17518	RG:1871436:10015:G01	MA164:G01	57.5	10	0	40
574	17524	RG:1705470:10015:B07	MA164:B07	2.5	0	27.5	40
575	17556	I:546910:17B02:B07	MA94:B07	0	0	20	40
576	17580	I:1799023:09B02:F01	MA138:F01	0	0	25	40
577	17584	I:2380380:09B02:H01	MA138:H01	0	0	25	40
578	17675	I:2319269:18A01:F02	MA95:F02	25	0	0	40
579	17687	I:2296344:18A01:D08	MA95:D08	0	0	35	40
580	17737	RG:155066:10006:E02	MA155:E02	5	0	20	40
581	17741	RG:180135:10006:G02	MA155:G02	62.5	2.5	0	40
582	17755	RG:178093:10006:F08	MA155:F08	37.5	2.5	0	40
583	17757	RG:184042:10006:G08	MA155:G08	47.5	0	0	40
584	17761	I:1741643:16A01:A02	MA87:A02	30	0	0	40
585	17860	RG:928026:10012:B02	MA161:B02	30	7.5	2.5	40
586	17862	RG:1032969:10012:C02	MA161:C02	22.5	0	0	40
587	17872	RG:1322660:10012:H02	MA161:H02	0	0	52.5	40
588	17876	RG:968474:10012:B08	MA161:B08	2.5	0	35	40

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
589	17878	RG:1047592:10012:C08	MA161:C08	2.5	0	57.5	40
590	17914	I:617750:17B01:E08	MA93:E08	2.5	0	30	40
591	17934	I:2808775:09B01:G02	MA137:G02	0	0	22.5	40
592	18035	I:966692:18A02:B08	MA96:B08	2.5	0	32.5	40
593	18085	RG:209240:10007:C02	MA156:C02	27.5	2.5	10	40
594	18087	RG:223355:10007:D02	MA156:D02	0	0	25	40
595	18095	RG:267629:10007:H02	MA156:H02	25	0	0	40
596	18134	I:2246234:16B02:C08	MA90:C08	2.5	0	20	40
597	18212	RG:1696513:10015:B02	MA164:B02	30	17.5	0	40
598	18216	RG:1733895:10015:D02	MA164:D02	27.5	5	0	40
599	18225	RG:1353930:10013:A08	MA162:A08	22.5	2.5	0	40
600	18238	RG:1881947:10015:G08	MA164:G08	42.5	20	5	40
601	18443	RG:166575:10006:F03	MA155:F03	2.5	2.5	30	40
602	18465	I:1998994:16A01:A03	MA87:A03	35	0	0	40
603	18471	I:1953051:16A01:D03	MA87:D03	25	0	0	40
604	18473	I:518826:16A01:E03	MA87:E03	35	2.5	2.5	40
605	18483	I:81490:16A01:B09	MA87:B09	0	0	22.5	40
606	18572	RG:1256163:10012:F03	MA161:F03	45	2.5	0	40
607	18584	RG:1132085:10012:D09	MA161:D09	55	2.5	0	40
608	18614	I:2132717:17B01:C09	MA93:C09	25	0	12.5	40
609	18620	I:1998428:17B01:F09	MA93:F09	2.5	0	22.5	40
610	18787	RG:206694:10007:B03	MA156:B03	2.5	0	25	40
611	18811	RG:261714:10007:F09	MA156:F09	0	0	32.5	40
612	18821	I:1461515:16A02:C03	MA88:C03	0	0	20	40
613	18831	I:338859:16A02:H03	MA88:H03	0	0	30	40
614	18845	I:1425861:16A02:G09	MA88:G09	5	0	37.5	40
615	18848	I:1928644:16B02:H09	MA90:H09	0	0	22.5	40
616	18917	RG:1404414:10013:C03	MA162:C03	30	0	0	40
617	18919	RG:1415437:10013:D03	MA162:D03	7.5	0	65	40
618	18920	RG:1734353:10015:D03	MA164:D03	5	0	62.5	40
619	18926	RG:1872251:10015:G03	MA164:G03	0	0	32.5	40
620	18929	RG:1354408:10013:A09	MA162:A09	2.5	0	27.5	40
621	18930	RG:1690198:10015:A09	MA164:A09	2.5	0	27.5	40
622	18937	RG:1476452:10013:E09	MA162:E09	40	0	2.5	40
623	18988	I:2069305:09B02:F03	MA138:F03	57.5	5	0	40
624	19088	I:1966067:18B01:H04	MA97:H04	27.5	5	5	40
625	19090	I:2128547:18B01:A10	MA97:A10	25	2.5	0	40
626	19143	RG:149960:10006:D04	MA155:D04	0	0	42.5	40
627	19147	RG:171569:10006:F04	MA155:F04	0	0	50	40
628	19163	RG:178638:10006:F10	MA155:F10	0	0	30	40
629	19167	RG:195122:10006:H10	MA155:H10	45	2.5	0	40
630	19195	I:814216:16A01:F10	MA87:F10	65	32.5	0	40
631	19265	RG:491163:10010:A04	MA159:A04	0	0	45	40
632	19266	RG:827185:10012:A04	MA161:A04	0	0	42.5	40
633	19272	RG:1129102:10012:D04	MA161:D04	45	7.5	0	40
634	19279	RG:730938:10010:H04	MA159:H04	22.5	0	0	40
635	19282	RG:925984:10012:A10	MA161:A10	0	0	45	40
636	19283	RG:668442:10010:B10	MA159:B10	22.5	0	0	40
637	19284	RG:1028911:10012:B10	MA161:B10	42.5	2.5	0	40

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
638	19285	RG:684866:10010:C10	MA159:C10	0	0	27.5	40
639	19292	RG:1283076:10012:F10	MA161:F10	40	0	0	40
640	19309	I:627654:17A01:G04	MA91:G04	42.5	5	0	40
641	19319	I:1833801:17A01:D10	MA91:D10	0	0	55	40
642	19328	I:961473:17B01:H10	MA93:H10	0	0	25	40
643	19348	I:2556708:09B01:B10	MA137:B10	0	0	35	40
644	19511	RG:243565:10007:D10	MA156:D10	27.5	5	2.5	40
645	19517	RG:266649:10007:G10	MA156:G10	47.5	0	2.5	40
646	19524	I:2013513:16B02:B04	MA90:B04	0	0	27.5	40
647	19539	I:2312442:16A02:B10	MA88:B10	2.5	0	30	40
648	19543	I:2060626:16A02:D10	MA88:D10	25	0	0	40
649	19623	RG:1415858:10013:D04	MA162:D04	57.5	7.5	0	40
650	19627	RG:1517435:10013:F04	MA162:F04	22.5	7.5	2.5	40
651	19632	RG:1914716:10015:H04	MA164:H04	30	2.5	0	40
652	19633	RG:1354528:10013:A10	MA162:A10	37.5	5	0	40
653	19636	RG:1706414:10015:B10	MA164:B10	2.5	0	20	40
654	19653	I:1998510:17A02:C04	MA92:C04	0	0	60	40
655	19678	I:899118:17B02:G10	MA94:G10	30	0	7.5	40
656	19684	I:2680168:09B02:B04	MA138:B04	0	0	42.5	40
657	19690	I:1354558:09B02:E04	MA138:E04	0	0	20	40
658	19708	I:1665871:09B02:F10	MA138:F10	25	0	0	40
659	19782	I:1922084:18B01:C05	MA97:C05	0	0	77.5	40
660	19795	I:2307946:18A01:B11	MA95:B11	25	2.5	0	40
661	19798	I:1923572:18B01:C11	MA97:C11	0	0	30	40
662	19851	RG:171993:10006:F05	MA155:F05	0	0	20	40
663	19859	RG:129317:10006:B11	MA155:B11	0	0	40	40
664	19863	RG:153244:10006:D11	MA155:D11	52.5	2.5	0	40
665	19871	RG:196236:10006:H11	MA155:H11	35	5	5	40
666	19893	I:557538:16A01:C11	MA87:C11	27.5	0	0	40
667	19899	I:782235:16A01:F11	MA87:F11	67.5	30	0	40
668	19980	RG:1257341:10012:F05	MA161:F05	42.5	2.5	0	40
669	19981	RG:727387:10010:G05	MA159:G05	32.5	2.5	0	40
670	19992	RG:1145235:10012:D11	MA161:D11	25	2.5	0	40
671	19995	RG:725145:10010:F11	MA159:F11	10	0	25	40
672	19999	RG:740079:10010:H11	MA159:H11	57.5	7.5	0	40
673	20042	I:1873176:09B01:E05	MA137:E05	27.5	0	0	40
674	20056	I:2081974:09B01:D11	MA137:D11	30	5	2.5	40
675	20141	I:2107723:18A02:G05	MA96:G05	37.5	7.5	0	40
676	20211	RG:207777:10007:B11	MA156:B11	22.5	0	2.5	40
677	20213	RG:221172:10007:C11	MA156:C11	42.5	7.5	0	40
678	20230	I:1968436:16B02:C05	MA90:C05	2.5	0	25	40
679	20253	I:2060973:16A02:G11	MA88:G11	22.5	0	2.5	40
680	20323	RG:1369494:10013:B05	MA162:B05	32.5	12.5	0	40
681	20330	RG:1752177:10015:E05	MA164:E05	22.5	2.5	2.5	40
682	20331	RG:1519327:10013:F05	MA162:F05	10	0	60	40
683	20338	RG:1694569:10015:A11	MA164:A11	50	2.5	0	40
684	20346	RG:1839794:10015:E11	MA164:E11	0	0	45	40
685	20359	I:514124:17A02:D05	MA92:D05	0	0	22.5	40
686	20365	I:997782:17A02:G05	MA92:G05	0	0	25	40

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
687	20412	I:1709364:09B02:F11	MA138:F11	2.5	0	30	40
688	20485	I:2004896:18A01:C06	MA95:C06	0	0	22.5	40
689	20555	RG:172982:10006:F06	MA155:F06	2.5	0	32.5	40
690	20557	RG:180978:10006:G06	MA155:G06	20	2.5	2.5	40
691	20563	RG:129528:10006:B12	MA155:B12	20	7.5	0	40
692	20573	RG:186511:10006:G12	MA155:G12	30	0	0	40
693	20580	I:2005910:16B01:B06	MA89:B06	0	0	20	40
694	20583	I:620871:16A01:D06	MA87:D06	30	0	0	40
695	20593	I:1920819:16A01:A12	MA87:A12	27.5	0	0	40
696	20601	I:990375:16A01:E12	MA87:E12	0	0	82.5	40
697	20605	I:690313:16A01:G12	MA87:G12	47.5	10	0	40
698	20674	RG:878195:10012:A06	MA161:A06	25	0	0	40
699	20679	RG:687128:10010:D06	MA159:D06	0	0	25	40
700	20712	I:884855:17B01:D06	MA93:D06	25	2.5	0	40
701	20716	I:1218621:17B01:F06	MA93:F06	0	0	35	40
702	20719	I:620371:17A01:H06	MA91:H06	35	5	0	40
703	20744	I:1681610:09B01:D06	MA137:D06	0	0	22.5	40
704	20909	RG:265206:10007:G06	MA156:G06	50	2.5	0	40
705	20911	RG:268073:10007:H06	MA156:H06	0	0	20	40
706	20939	I:2117221:16A02:F06	MA88:F06	0	0	35	40
707	20942	I:1760693:16B02:G06	MA90:G06	2.5	0	35	40
708	20948	I:776793:16B02:B12	MA90:B12	0	0	25	40
709	21029	RG:1405692:10013:C06	MA162:C06	62.5	5	0	40
710	21044	RG:1707747:10015:B12	MA164:B12	65	15	0	40
711	21046	RG:1722789:10015:C12	MA164:C12	30	2.5	0	40
712	21066	I:2112348:17B02:E06	MA94:E06	25	2.5	0	40
713	21067	I:630458:17A02:F06	MA92:F06	35	5	0	40
714	21071	I:901577:17A02:H06	MA92:H06	20	7.5	0	40
715	21082	I:2298081:17B02:E12	MA94:E12	0	0	37.5	40
716	21120	I:2718565:09B02:H12	MA138:H12	0	0	20	40
717	21122	M00056237C:E03	MA181:A01	2.173913043	0	28.26086957	46
718	21130	M00055261C:F04	MA197:E01	28.26086957	0	0	46
719	21144	M00055353D:A04	MA197:D07	78.26086957	54.34782609	0	46
720	21152	M00055357B:B10	MA197:H07	69.56521739	34.7826087	0	46
721	21189	M00056386D:H12	MA173:C01	52.17391304	2.173913043	0	46
722	21191	M00056394B:B04	MA173:D01	54.34782609	8.695652174	0	46
723	21193	M00056395A:B04	MA173:E01	26.08695652	0	0	46
724	21195	M00056396B:G05	MA173:F01	26.08695652	0	0	46
725	21198	M00056137A:A05	MA180:G01	0	0	76.08695652	46
726	21199	M00056401C:C03	MA173:H01	36.95652174	8.695652174	6.52173913	46
727	21209	M00056484A:F06	MA173:E07	26.08695652	2.173913043	0	46
728	21212	M00056193B:C11	MA180:F07	2.173913043	0	41.30434783	46
729	21213	M00056484B:B07	MA173:G07	2.173913043	0	39.13043478	46
730	21214	M00056193B:D06	MA180:G07	4.347826087	2.173913043	45.65217391	46
731	21216	M00056194B:G06	MA180:H07	8.695652174	0	21.73913043	46
732	21217	M00054633D:B07	MA187:A01	30.43478261	0	0	46
733	21219	M00054633D:E06	MA187:B01	26.08695652	6.52173913	17.39130435	46
734	21232	M00054848A:C03	MA189:H01	34.7826087	0	2.173913043	46
735	21234	M00054882C:C06	MA189:A07	0	0	23.91304348	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
736	21237	M00054678D:A03	MA187:C07	30.43478261	0	0	46
737	21239	M00054679B:B03	MA187:D07	23.91304348	13.04347826	28.26086957	46
738	21245	M00054680B:D06	MA187:G07	71.73913043	15.2173913	0	46
739	21247	M00054680C:A06	MA187:H07	0	0	43.47826087	46
740	21252	M00057176B:F11	MA193:B01	32.60869565	0	0	46
741	21254	M00057181A:D01	MA193:C01	43.47826087	0	0	46
742	21272	M00057219D:B04	MA193:D07	43.47826087	0	0	46
743	21281	M00042341A:D12	MA167:A01	0	0	76.08695652	46
744	21284	M00042433B:G09	MA171:B01	39.13043478	0	0	46
745	21288	M00042435A:F08	MA171:D01	45.65217391	0	0	46
746	21290	M00042437B:G03	MA171:E01	10.86956522	6.52173913	67.39130435	46
747	21291	M00042525D:E07	MA167:F01	54.34782609	0	0	46
748	21292	M00042438B:D01	MA171:F01	0	0	58.69565217	46
749	21293	M00042529C:G07	MA167:G01	0	0	82.60869565	46
750	21295	M00042529D:B12	MA167:H01	0	0	76.08695652	46
751	21297	M00042700A:E05	MA167:A07	58.69565217	6.52173913	0	46
752	21300	M00042777D:G05	MA171:B07	21.73913043	13.04347826	28.26086957	46
753	21304	M00042781C:F03	MA171:D07	76.08695652	13.04347826	0	46
754	21306	M00042783C:F10	MA171:E07	2.173913043	0	23.91304348	46
755	21307	M00042702D:B02	MA167:F07	10.86956522	6.52173913	73.91304348	46
756	21312	M00042785B:F11	MA171:H07	15.2173913	10.86956522	26.08695652	46
757	21329	M00056566C:C03	MA174:A07	26.08695652	0	0	46
758	21333	M00056567B:A09	MA174:C07	43.47826087	0	0	46
759	21341	M00056569B:D09	MA174:G07	23.91304348	0	0	46
760	21343	M00056571D:E05	MA174:H07	52.17391304	2.173913043	2.173913043	46
761	21349	RG:376801:10009:C01	MA158:C01	34.7826087	2.173913043	2.173913043	46
762	21363	RG:365436:10009:B07	MA158:B07	41.30434783	13.04347826	0	46
763	21367	RG:416839:10009:D07	MA158:D07	2.173913043	0	47.82608696	46
764	21370	RG:784224:10011:E07	MA160:E07	30.43478261	2.173913043	4.347826087	46
765	21374	RG:796852:10011:G07	MA160:G07	28.26086957	6.52173913	2.173913043	46
766	21386	M00043412A:F04	MA184:E01	34.7826087	0	0	46
767	21391	M00057273B:H10	MA182:H01	36.95652174	0	0	46
768	21396	M00054506C:B10	MA184:B07	32.60869565	0	0	46
769	21404	M00054507D:G03	MA184:F07	43.47826087	0	0	46
770	21418	M00054935B:B03	MA198:E01	0	0	23.91304348	46
771	21424	M00054935D:C11	MA198:H01	23.91304348	4.347826087	0	46
772	21432	M00054976A:E09	MA198:D07	39.13043478	4.347826087	0	46
773	21461	M00055788B:F08	MA170:C07	2.173913043	0	36.95652174	46
774	21469	M00055791A:E10	MA170:G07	2.173913043	0	36.95652174	46
775	21497	M00055224C:H11	MA196:E07	32.60869565	6.52173913	2.173913043	46
776	21539	M00055932A:C02	MA179:B01	58.69565217	4.347826087	4.347826087	46
777	21542	M00056908A:F12	MA177:C01	0	0	21.73913043	46
778	21543	M00055935D:B06	MA179:D01	60.86956522	21.73913043	0	46
779	21546	M00056908D:D08	MA177:E01	23.91304348	0	2.173913043	46
780	21547	M00055942B:F08	MA179:F01	0	0	89.13043478	46
781	21550	M00056910A:B07	MA177:G01	73.91304348	8.695652174	0	46
782	21568	M00056952B:C08	MA177:H07	8.695652174	4.347826087	63.04347826	46
783	21569	M00054728C:E03	MA188:A01	63.04347826	10.86956522	0	46
784	21571	M00054728D:E06	MA188:B01	34.7826087	4.347826087	4.347826087	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
785	21583	M00054731C:H01	MA188:H01	0	0	84.7826087	46
786	21591	M00054778B:A12	MA188:D07	43.47826087	4.347826087	0	46
787	21595	M00054778C:D08	MA188:F07	21.73913043	0	0	46
788	21599	M00054780A:G06	MA188:H07	39.13043478	0	0	46
789	21633	M00042899D:D02	MA168:A01	0	0	78.26086957	46
790	21638	M00042831B:G10	MA172:C01	34.7826087	0	0	46
791	21640	M00042833A:G07	MA172:D01	26.08695652	0	4.347826087	46
792	21641	M00042906D:F05	MA168:E01	2.173913043	0	28.26086957	46
793	21645	M00042910C:A02	MA168:G01	0	0	80.43478261	46
794	21648	M00042838C:D06	MA172:H01	54.34782609	4.347826087	0	46
795	21650	M00042867B:F03	MA172:A07	2.173913043	0	41.30434783	46
796	21651	M00055439B:G05	MA168:B07	0	0	32.60869565	46
797	21659	M00055442D:E12	MA168:F07	30.43478261	2.173913043	0	46
798	21667	M00056711D:A02	MA175:B01	54.34782609	4.347826087	0	46
799	21681	M00056771C:A12	MA175:A07	52.17391304	2.173913043	2.173913043	46
800	21685	M00056772D:G07	MA175:C07	47.82608696	0	0	46
801	21691	M00056782D:E04	MA175:F07	2.173913043	0	43.47826087	46
802	21693	M00056785D:G01	MA175:G07	73.91304348	10.86956522	0	46
803	21695	M00056788C:A01	MA175:H07	0	0	39.13043478	46
804	21723	RG:1663880:10014:F07	MA163:F07	0	0	30.43478261	46
805	21733	M00043310B:D08	MA183:C01	36.95652174	0	0	46
806	21734	M00054538C:G03	MA185:C01	71.73913043	2.173913043	0	46
807	21743	M00043315C:G05	MA183:H01	28.26086957	0	0	46
808	21764	M00055397B:E08	MA199:B01	43.47826087	0	0	46
809	21765	M00056624B:H11	MA186:C01	45.65217391	2.173913043	2.173913043	46
810	21786	M00055423C:C03	MA199:E07	34.7826087	2.173913043	0	46
811	21787	M00056668D:C06	MA186:F07	54.34782609	6.52173913	0	46
812	21789	M00056669B:A10	MA186:G07	52.17391304	6.52173913	0	46
813	21790	M00055424A:D01	MA199:G07	32.60869565	6.52173913	0	46
814	21791	M00056669B:E07	MA186:H07	34.7826087	6.52173913	0	46
815	21792	M00055424D:F01	MA199:H07	39.13043478	2.173913043	2.173913043	46
816	21798	M00056243A:H07	MA181:C02	2.173913043	0	23.91304348	46
817	21800	M00056243C:G10	MA181:D02	2.173913043	0	23.91304348	46
818	21803	M00055528D:H03	MA169:F02	2.173913043	0	21.73913043	46
819	21811	M00055607B:A11	MA169:B08	0	0	26.08695652	46
820	21842	M00055363C:E02	MA197:A08	2.173913043	0	21.73913043	46
821	21852	M00055373D:H02	MA197:F08	43.47826087	2.173913043	2.173913043	46
822	21856	M00055374D:E01	MA197:H08	36.95652174	2.173913043	0	46
823	21889	M00056401D:D09	MA173:A02	43.47826087	4.347826087	0	46
824	21892	M00056139D:A10	MA180:B02	2.173913043	0	47.82608696	46
825	21896	M00056140A:E11	MA180:D02	0	0	71.73913043	46
826	21898	M00056142D:A08	MA180:E02	65.2173913	2.173913043	0	46
827	21899	M00056412D:A09	MA173:F02	2.173913043	0	23.91304348	46
828	21900	M00056142D:H11	MA180:F02	0	0	52.17391304	46
829	21901	M00056414C:F03	MA173:G02	36.95652174	2.173913043	2.173913043	46
830	21908	M00056196A:H09	MA180:B08	0	0	91.30434783	46
831	21912	M00056200A:E11	MA180:D08	0	0	84.7826087	46
832	21913	M00056488C:G01	MA173:E08	50	4.347826087	0	46
833	21914	M00056200B:B01	MA180:E08	0	0	86.95652174	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
834	21916	M00056203B:G08	MA180:F08	0	0	21.73913043	46
835	21919	M00056493A:F09	MA173:H08	0	0	50	46
836	21923	M00054640D:D12	MA187:B02	2.173913043	0	21.73913043	46
837	21927	M00054643B:F04	MA187:D02	2.173913043	0	23.91304348	46
838	21929	M00054643C:D08	MA187:E02	58.69565217	2.173913043	0	46
839	21932	M00054854D:B06	MA189:F02	60.86956522	2.173913043	0	46
840	21933	M00054644B:F02	MA187:G02	26.08695652	0	2.173913043	46
841	21934	M00054857A:E08	MA189:G02	52.17391304	2.173913043	0	46
842	21939	M00054681D:G03	MA187:B08	36.95652174	0	0	46
843	21943	M00054682D:F11	MA187:D08	0	0	45.65217391	46
844	21947	M00054684B:C07	MA187:F08	56.52173913	2.173913043	0	46
845	21960	M00057191B:E11	MA193:D02	58.69565217	2.173913043	0	46
846	21966	M00057194B:G12	MA193:G02	0	0	84.7826087	46
847	21972	M00057222D:G09	MA193:B08	26.08695652	2.173913043	0	46
848	21985	M00042531B:H03	MA167:A02	13.04347826	0	21.73913043	46
849	21986	M00042440C:G04	MA171:A02	2.173913043	0	26.08695652	46
850	21989	M00042533C:D02	MA167:C02	45.65217391	0	0	46
851	21993	M00042536D:H05	MA167:E02	0	0	95.65217391	46
852	21994	M00042465B:E04	MA171:E02	21.73913043	0	4.347826087	46
853	21995	M00042537D:F10	MA167:F02	39.13043478	0	0	46
854	21996	M00042467B:B04	MA171:F02	54.34782609	4.347826087	0	46
855	21997	M00042538D:D12	MA167:G02	0	0	23.91304348	46
856	21998	M00042467B:B08	MA171:G02	26.08695652	0	0	46
857	22003	M00042711B:G09	MA167:B08	4.347826087	0	52.17391304	46
858	22004	M00042790B:E12	MA171:B08	4.347826087	0	67.39130435	46
859	22006	M00042791A:C10	MA171:C08	0	0	45.65217391	46
860	22007	M00042711C:H05	MA167:D08	0	0	65.2173913	46
861	22016	M00042801D:B02	MA171:H08	39.13043478	0	0	46
862	22016	M00042801D:B02	MA171:H08	39.13043478	0	0	46
863	22021	M00056532A:D09	MA174:C02	2.173913043	0	21.73913043	46
864	22025	M00056533D:H04	MA174:E02	2.173913043	0	50	46
865	22035	M00056575B:C04	MA174:B08	2.173913043	0	54.34782609	46
866	22037	M00056578C:A09	MA174:C08	58.69565217	2.173913043	0	46
867	22040	RG:1862072:20001:D08	MA139:D08	39.13043478	4.347826087	2.173913043	46
868	22044	RG:1862465:20001:F08	MA139:F08	2.173913043	0	23.91304348	46
869	22049	RG:347381:10009:A02	MA158:A02	60.86956522	6.52173913	0	46
870	22071	RG:417093:10009:D08	MA158:D08	47.82608696	6.52173913	0	46
871	22082	M00043413B:C04	MA184:A02	67.39130435	0	0	46
872	22092	M00043502D:C12	MA184:F02	39.13043478	0	0	46
873	22105	M00057341B:B11	MA182:E08	47.82608696	2.173913043	0	46
874	22110	M00054512A:F11	MA184:G08	41.30434783	0	0	46
875	22111	M00042353A:D05	MA182:H08	26.08695652	0	0	46
876	22116	M00054937B:D09	MA198:B02	36.95652174	0	0	46
877	22167	M00055797C:H09	MA170:D08	0	0	93.47826087	46
878	22169	M00055799B:C01	MA170:E08	2.173913043	0	41.30434783	46
879	22183	M00055194C:G12	MA196:D02	34.7826087	0	0	46
880	22195	M00055233B:D08	MA196:B08	0	0	21.73913043	46
881	22255	M00055966C:D06	MA179:H02	0	0	91.30434783	46
882	22263	M00056024B:B06	MA179:D08	0	0	82.60869565	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
883	22265	M00056024C:G04	MA179:E08	0	0	93.47826087	46
884	22279	M00054737D:F10	MA188:D02	65.2173913	17.39130435	0	46
885	22289	M00054780D:C09	MA188:A08	34.7826087	4.347826087	0	46
886	22295	M00054787A:E09	MA188:D08	54.34782609	13.04347826	0	46
887	22297	M00054806B:E11	MA188:E08	43.47826087	8.695652174	2.173913043	46
888	22339	M00042913B:C11	MA168:B02	52.17391304	0	0	46
889	22343	M00042915B:B10	MA168:D02	0	0	26.08695652	46
890	22345	M00054792C:E12	MA168:E02	47.82608696	4.347826087	0	46
891	22350	M00042842A:C01	MA172:G02	2.173913043	0	21.73913043	46
892	22367	M00055450A:C09	MA168:H08	2.173913043	0	23.91304348	46
893	22399	M00056804C:D01	MA175:H08	21.73913043	0	0	46
894	22423	RG:1647954:10014:D08	MA163:D08	41.30434783	0	0	46
895	22427	RG:1664311:10014:F08	MA163:F08	39.13043478	8.695652174	2.173913043	46
896	22429	RG:1671377:10014:G08	MA163:G08	47.82608696	4.347826087	0	46
897	22437	M00043316B:F10	MA183:C02	26.08695652	0	2.173913043	46
898	22440	M00054545B:A03	MA185:D02	26.08695652	0	0	46
899	22442	M00054545B:B09	MA185:E02	45.65217391	0	0	46
900	22456	M00054575A:B09	MA185:D08	30.43478261	2.173913043	2.173913043	46
901	22459	M00043374B:H05	MA183:F08	34.7826087	0	0	46
902	22475	M00056641A:G11	MA186:F02	39.13043478	6.52173913	4.347826087	46
903	22479	M00056642A:D08	MA186:H02	2.173913043	0	23.91304348	46
904	22480	M00055403B:B11	MA199:H02	43.47826087	0	0	46
905	22495	M00056676B:C11	MA186:H08	0	0	43.47826087	46
906	22499	M00055530D:B02	MA169:B03	45.65217391	4.347826087	0	46
907	22502	M00056253A:D06	MA181:C03	2.173913043	0	67.39130435	46
908	22504	M00056253B:B06	MA181:D03	0	0	36.95652174	46
909	22519	M00055642D:F09	MA169:D09	0	0	56.52173913	46
910	22521	M00055643A:E09	MA169:E09	0	0	93.47826087	46
911	22523	M00055643D:E02	MA169:F09	0	0	82.60869565	46
912	22548	M00055376D:D08	MA197:B09	2.173913043	0	34.7826087	46
913	22595	M00056415C:D02	MA173:B03	2.173913043	0	23.91304348	46
914	22596	M00056146D:F05	MA180:B03	0	0	23.91304348	46
915	22597	M00056417A:F02	MA173:C03	8.695652174	6.52173913	65.2173913	46
916	22598	M00056148A:B07	MA180:C03	0	0	30.43478261	46
917	22599	M00056420C:E07	MA173:D03	43.47826087	6.52173913	2.173913043	46
918	22600	M00056150A:E04	MA180:D03	2.173913043	0	23.91304348	46
919	22603	M00056421C:H11	MA173:F03	58.69565217	6.52173913	0	46
920	22604	M00056150C:A10	MA180:F03	69.56521739	26.08695652	0	46
921	22605	M00056421D:H05	MA173:G03	0	0	52.17391304	46
922	22606	M00056150C:C04	MA180:G03	39.13043478	0	0	46
923	22607	M00056422B:D11	MA173:H03	36.95652174	0	0	46
924	22608	M00056151C:A12	MA180:H03	10.86956522	8.695652174	67.39130435	46
925	22609	M00056493C:E06	MA173:A09	34.7826087	2.173913043	0	46
926	22610	M00056205D:E03	MA180:A09	0	0	23.91304348	46
927	22611	M00056495A:G10	MA173:B09	34.7826087	0	0	46
928	22618	M00056206D:B10	MA180:E09	6.52173913	0	28.26086957	46
929	22623	M00056501D:C08	MA173:H09	2.173913043	0	50	46
930	22624	M00056209D:H10	MA180:H09	0	0	63.04347826	46
931	22627	M00054645B:C12	MA187:B03	52.17391304	10.86956522	0	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
932	22629	M00054646A:B10	MA187:C03	89.13043478	36.95652174	0	46
933	22637	M00054647D:E01	MA187:G03	47.82608696	4.347826087	2.173913043	46
934	22666	M00057202C:G06	MA193:E03	32.60869565	0	0	46
935	22668	M00057202D:C11	MA193:F03	32.60869565	2.173913043	0	46
936	22693	M00042549A:G12	MA167:C03	0	0	36.95652174	46
937	22695	M00042549D:F03	MA167:D03	0	0	54.34782609	46
938	22697	M00042551B:D12	MA167:E03	45.65217391	6.52173913	0	46
939	22698	M00042513A:D03	MA171:E03	34.7826087	2.173913043	0	46
940	22700	M00042513D:A12	MA171:F03	2.173913043	0	21.73913043	46
941	22703	M00042551D:D12	MA167:H03	28.26086957	2.173913043	21.73913043	46
942	22705	M00042717B:D05	MA167:A09	0	0	89.13043478	46
943	22707	M00042719D:C09	MA167:B09	0	0	78.26086957	46
944	22710	M00042803C:F11	MA171:C09	41.30434783	0	2.173913043	46
945	22714	M00042805D:D12	MA171:E09	67.39130435	15.2173913	0	46
946	22715	M00042731A:G04	MA167:F09	6.52173913	6.52173913	60.86956522	46
947	22718	M00042806C:E09	MA171:G09	52.17391304	4.347826087	0	46
948	22720	M00042806D:F08	MA171:H09	47.82608696	2.173913043	0	46
949	22725	M00056537A:F05	MA174:C03	58.69565217	0	2.173913043	46
950	22727	M00056537D:A07	MA174:D03	47.82608696	4.347826087	0	46
951	22734	RG:1862584:20001:G03	MA139:G03	2.173913043	0	23.91304348	46
952	22737	M00056585D:D05	MA174:A09	45.65217391	0	0	46
953	22739	M00056586C:B08	MA174:B09	36.95652174	0	0	46
954	22745	M00056592A:B08	MA174:E09	4.347826087	0	43.47826087	46
955	22757	RG:378550:10009:C03	MA158:C03	0	0	63.04347826	46
956	22780	RG:789040:10011:F09	MA160:F09	28.26086957	4.347826087	0	46
957	22787	M00057283A:D01	MA182:B03	36.95652174	4.347826087	0	46
958	22792	M00043505A:E07	MA184:D03	32.60869565	0	0	46
959	22798	M00043506B:G10	MA184:G03	34.7826087	0	0	46
960	22800	M00043507A:B02	MA184:H03	28.26086957	0	0	46
961	22801	M00042353C:F02	MA182:A09	54.34782609	2.173913043	0	46
962	22812	M00054516B:A08	MA184:F09	43.47826087	0	0	46
963	22834	M00054986D:B04	MA198:A09	34.7826087	0	0	46
964	22836	M00054987C:B10	MA198:B09	21.73913043	4.347826087	0	46
965	22838	M00054988D:B11	MA198:C09	28.26086957	0	0	46
966	22857	M00055743C:G08	MA170:E03	47.82608696	4.347826087	0	46
967	22887	M00055196B:C09	MA196:D03	0	0	28.26086957	46
968	22899	M00055238B:G05	MA196:B09	32.60869565	0	0	46
969	22910	M00056207B:H06	MA180:G09	2.173913043	0	26.08695652	46
970	22945	M00055966C:G04	MA179:A03	50	8.695652174	4.347826087	46
971	22946	M00056920D:C08	MA177:A03	26.08695652	0	0	46
972	22949	M00055969D:D01	MA179:C03	0	0	82.60869565	46
973	22969	M00056055D:F06	MA179:E09	0	0	41.30434783	46
974	22970	M00056956B:G12	MA177:E09	0	0	23.91304348	46
975	22971	M00056060D:C04	MA179:F09	0	0	32.60869565	46
976	22973	M00056061C:H04	MA179:G09	0	0	30.43478261	46
977	22977	M00054743C:E05	MA188:A03	60.86956522	10.86956522	0	46
978	22979	M00054744C:B02	MA188:B03	43.47826087	0	0	46
979	22997	M00054808A:E02	MA188:C09	23.91304348	0	0	46
980	23005	M00054811A:G01	MA188:G09	45.65217391	2.173913043	0	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
981	23041	M00054797C:G10	MA168:A03	0	0	28.26086957	46
982	23042	M00042843B:H01	MA172:A03	30.43478261	0	0	46
983	23048	M00042844D:D10	MA172:D03	32.60869565	0	0	46
984	23050	M00042845D:A12	MA172:E03	58.69565217	6.52173913	0	46
985	23053	M00054800C:H10	MA168:G03	8.695652174	8.695652174	58.69565217	46
986	23055	M00054911D:E09	MA168:H03	36.95652174	2.173913043	0	46
987	23057	M00055450A:G03	MA168:A09	0	0	89.13043478	46
988	23063	M00055456B:H05	MA168:D09	2.173913043	0	21.73913043	46
989	23079	M00056733C:D03	MA175:D03	0	0	36.95652174	46
990	23087	M00056737D:E08	MA175:H03	26.08695652	0	0	46
991	23097	M00056809B:A12	MA175:E09	4.347826087	2.173913043	28.26086957	46
992	23101	M00056809D:C07	MA175:G09	4.347826087	0	23.91304348	46
993	23131	RG:1664308:10014:F09	MA163:F09	0	0	23.91304348	46
994	23139	M00043321A:G07	MA183:B03	21.73913043	0	0	46
995	23142	M00054549A:F03	MA185:C03	2.173913043	0	26.08695652	46
996	23159	M00043381A:C08	MA183:D09	39.13043478	0	0	46
997	23169	M00056642B:G03	MA186:A03	23.91304348	6.52173913	15.2173913	46
998	23199	M00056688C:A07	MA186:H09	36.95652174	0	0	46
999	23202	M00056257C:G03	MA181:A04	0	0	30.43478261	46
1000	23213	M00055545C:F11	MA169:G04	0	0	23.91304348	46
1001	23221	M00055653C:F04	MA169:C10	0	0	84.7826087	46
1002	23223	M00055653D:F01	MA169:D10	0	0	60.86956522	46
1003	23252	M00055385A:C11	MA197:B10	34.7826087	0	0	46
1004	23304	M00056157A:F11	MA180:D04	30.43478261	0	0	46
1005	23306	M00056160A:F03	MA180:E04	2.173913043	0	23.91304348	46
1006	23307	M00056426A:H07	MA173:F04	8.695652174	0	23.91304348	46
1007	23318	M00056214C:B04	MA180:C10	0	0	89.13043478	46
1008	23320	M00056216A:F10	MA180:D10	2.173913043	0	21.73913043	46
1009	23325	M00056507A:G11	MA173:G10	2.173913043	0	21.73913043	46
1010	23329	M00054648C:C10	MA187:A04	34.7826087	0	0	46
1011	23330	M00054862A:H11	MA189:A04	0	0	21.73913043	46
1012	23331	M00054648D:F12	MA187:B04	50	0	0	46
1013	23335	M00054650C:H08	MA187:D04	43.47826087	0	0	46
1014	23344	M00054868C:C11	MA189:H04	0	0	21.73913043	46
1015	23351	M00054700C:E02	MA187:D10	56.52173913	4.347826087	2.173913043	46
1016	23356	M00054902D:G11	MA189:F10	0	0	26.08695652	46
1017	23358	M00054903B:G06	MA189:G10	28.26086957	0	0	46
1018	23359	M00054706A:D05	MA187:H10	2.173913043	0	45.65217391	46
1019	23366	M00057207A:D05	MA193:C04	39.13043478	0	8.695652174	46
1020	23368	M00057207C:F06	MA193:D04	54.34782609	8.695652174	4.347826087	46
1021	23372	M00057208B:F11	MA193:F04	52.17391304	2.173913043	0	46
1022	23382	M00057242B:B10	MA193:C10	32.60869565	0	0	46
1023	23397	M00042555A:E06	MA167:C04	2.173913043	0	21.73913043	46
1024	23399	M00042561A:H03	MA167:D04	0	0	30.43478261	46
1025	23402	M00042756C:E10	MA171:E04	52.17391304	2.173913043	0	46
1026	23404	M00042758D:F01	MA171:F04	52.17391304	2.173913043	0	46
1027	23408	M00042759B:E02	MA171:H04	52.17391304	4.347826087	0	46
1028	23412	M00042808D:D03	MA171:B10	39.13043478	2.173913043	0	46
1029	23414	M00042808D:D10	MA171:C10	34.7826087	0	0	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
1030	23416	M00042811B:A05	MA171:D10	2.173913043	0	50	46
1031	23417	M00042746B:F05	MA167:E10	73.91304348	8.695652174	0	46
1032	23421	M00042746C:D01	MA167:G10	0	0	63.04347826	46
1033	23422	M00042812D:B04	MA171:G10	58.69565217	0	0	46
1034	23425	M00056546B:F12	MA174:A04	60.86956522	6.52173913	2.173913043	46
1035	23439	M00056550A:G09	MA174:H04	21.73913043	0	0	46
1036	23453	M00056610C:B08	MA174:G10	2.173913043	0	39.13043478	46
1037	23460	RG:745556:10011:B04	MA160:B04	0	0	36.95652174	46
1038	23469	RG:446537:10009:G04	MA158:G04	30.43478261	0	0	46
1039	23475	RG:375937:10009:B10	MA158:B10	67.39130435	8.695652174	0	46
1040	23476	RG:755120:10011:B10	MA160:B10	43.47826087	0	0	46
1041	23480	RG:781108:10011:D10	MA160:D10	23.91304348	8.695652174	0	46
1042	23505	M00042450C:H10	MA182:A10	43.47826087	2.173913043	2.173913043	46
1043	23507	M00042451B:B05	MA182:B10	45.65217391	6.52173913	0	46
1044	23508	M00054517D:D12	MA184:B10	32.60869565	0	0	46
1045	23544	M00055002B:G06	MA198:D10	71.73913043	26.08695652	0	46
1046	23555	M00055749A:C09	MA170:B04	0	0	84.7826087	46
1047	23559	M00055750A:F10	MA170:D04	8.695652174	2.173913043	63.04347826	46
1048	23565	M00055757A:H06	MA170:G04	2.173913043	2.173913043	65.2173913	46
1049	23591	M00055200B:F03	MA196:D04	36.95652174	2.173913043	0	46
1050	23595	M00055203B:F05	MA196:F04	36.95652174	4.347826087	0	46
1051	23657	M00055980B:F12	MA179:E04	0	0	84.7826087	46
1052	23667	M00056066C:H10	MA179:B10	0	0	23.91304348	46
1053	23669	M00056067B:F12	MA179:C10	0	0	21.73913043	46
1054	23671	M00056075D:H10	MA179:D10	0	0	43.47826087	46
1055	23672	M00056962D:A05	MA177:D10	0	0	21.73913043	46
1056	23673	M00056081D:B09	MA179:E10	0	0	34.7826087	46
1057	23674	M00056963A:E01	MA177:E10	0	0	23.91304348	46
1058	23675	M00056081D:C02	MA179:F10	0	0	28.26086957	46
1059	23678	M00056964D:C08	MA177:G10	60.86956522	4.347826087	0	46
1060	23679	M00056084A:B08	MA179:H10	0	0	67.39130435	46
1061	23683	M00054750C:G08	MA188:B04	28.26086957	0	0	46
1062	23685	M00054750D:F04	MA188:C04	30.43478261	4.347826087	2.173913043	46
1063	23693	M00054757A:F05	MA188:G04	32.60869565	2.173913043	0	46
1064	23695	M00054760D:B10	MA188:H04	67.39130435	4.347826087	4.347826087	46
1065	23746	M00042847A:A04	MA172:A04	63.04347826	13.04347826	0	46
1066	23748	M00042847A:D10	MA172:B04	2.173913043	0	21.73913043	46
1067	23755	M00054917B:G02	MA168:F04	80.43478261	41.30434783	0	46
1068	23765	M00055468D:D05	MA168:C10	65.2173913	13.04347826	0	46
1069	23767	M00055469B:E11	MA168:D10	0	0	23.91304348	46
1070	23773	M00055492C:C01	MA168:G10	43.47826087	2.173913043	0	46
1071	23775	M00055496A:E06	MA168:H10	0	0	41.30434783	46
1072	23787	M00056742D:D01	MA175:F04	45.65217391	4.347826087	0	46
1073	23805	M00056814D:C08	MA175:G10	50	10.86956522	0	46
1074	23827	RG:1636303:10014:B10	MA163:B10	0	0	26.08695652	46
1075	23829	RG:1643142:10014:C10	MA163:C10	0	0	80.43478261	46
1076	23831	RG:1650444:10014:D10	MA163:D10	23.91304348	4.347826087	0	46
1077	23840	RG:1418984:10003:H10	MA152:H10	67.39130435	13.04347826	0	46
1078	23841	M00043339C:C12	MA183:A04	41.30434783	0	0	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
1079	23843	M00043342C:H03	MA183:B04	36.95652174	0	0	46
1080	23847	M00043350A:C04	MA183:D04	50	2.173913043	0	46
1081	23875	M00056646D:G05	MA186:B04	0	0	78.26086957	46
1082	23880	M00055406C:H08	MA199:D04	34.7826087	0	2.173913043	46
1083	23887	M00056653C:F06	MA186:H04	34.7826087	2.173913043	0	46
1084	23888	M00055408A:H06	MA199:H04	54.34782609	8.695652174	0	46
1085	23905	M00055545D:E02	MA169:A05	0	0	86.95652174	46
1086	23909	M00055548B:H07	MA169:C05	39.13043478	0	2.173913043	46
1087	23912	M00056271C:F02	MA181:D05	4.347826087	0	63.04347826	46
1088	23915	M00055550D:A05	MA169:F05	0	0	47.82608696	46
1089	23929	M00055661A:F09	MA169:E11	0	0	78.26086957	46
1090	24003	M00056427D:A09	MA173:B05	41.30434783	0	0	46
1091	24004	M00056163C:H09	MA180:B05	0	0	36.95652174	46
1092	24005	M00056428B:F07	MA173:C05	41.30434783	6.52173913	2.173913043	46
1093	24006	M00056163D:E01	MA180:C05	50	0	2.173913043	46
1094	24009	M00056428C:A12	MA173:E05	50	6.52173913	2.173913043	46
1095	24011	M00056429D:D07	MA173:F05	2.173913043	0	2.173913043	46
1096	24014	M00056175D:B05	MA180:G05	41.30434783	2.173913043	2.173913043	46
1097	24017	M00056507D:D04	MA173:A11	2.173913043	0	23.91304348	46
1098	24027	M00056511D:H07	MA173:F11	52.17391304	0	0	46
1099	24033	M00054654A:F12	MA187:A05	76.08695652	6.52173913	0	46
1100	24034	M00054868D:F12	MA189:A05	32.60869565	0	0	46
1101	24039	M00054661B:H10	MA187:D05	43.47826087	4.347826087	0	46
1102	24043	M00054666B:C07	MA187:F05	21.73913043	0	0	46
1103	24044	M00054870B:H05	MA189:F05	34.7826087	0	4.347826087	46
1104	24045	M00054669B:B03	MA187:G05	41.30434783	0	0	46
1105	24049	M00054706B:G04	MA187:A11	0	0	26.08695652	46
1106	24055	M00054720C:F01	MA187:D11	34.7826087	0	0	46
1107	24057	M00054722B:E08	MA187:E11	30.43478261	0	2.173913043	46
1108	24058	M00054908A:H08	MA189:E11	26.08695652	2.173913043	0	46
1109	24061	M00054723B:H12	MA187:G11	0	0	65.2173913	46
1110	24070	M00057210B:G10	MA193:C05	50	8.695652174	0	46
1111	24084	M00057248D:B05	MA193:B11	36.95652174	0	0	46
1112	24092	M00057252A:F06	MA193:F11	21.73913043	0	0	46
1113	24099	M00042573B:A02	MA167:B05	67.39130435	10.86956522	0	46
1114	24108	M00042766A:E10	MA171:F05	0	0	21.73913043	46
1115	24113	M00042882D:G08	MA167:A11	4.347826087	0	21.73913043	46
1116	24115	M00042885C:A12	MA167:B11	60.86956522	4.347826087	0	46
1117	24116	M00042815A:E07	MA171:B11	2.173913043	0	21.73913043	46
1118	24118	M00042817B:E11	MA171:C11	0	0	60.86956522	46
1119	24121	M00042887C:A07	MA167:E11	0	0	76.08695652	46
1120	24126	M00042818D:A08	MA171:G11	47.82608696	4.347826087	0	46
1121	24133	M00056552A:G08	MA174:C05	32.60869565	0	0	46
1122	24135	M00056552C:D08	MA174:D05	34.7826087	2.173913043	0	46
1123	24137	M00056553C:E10	MA174:E05	50	21.73913043	2.173913043	46
1124	24143	M00056555B:C11	MA174:H05	50	10.86956522	0	46
1125	24151	M00056611C:D03	MA174:D11	21.73913043	0	0	46
1126	24155	M00056611D:B03	MA174:F11	71.73913043	6.52173913	0	46
1127	24157	M00056611D:F08	MA174:G11	65.2173913	0	0	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
1128	24159	M00056614C:F06	MA174:H11	71.73913043	4.347826087	0	46
1129	24161	RG:358387:10009:A05	MA158:A05	32.60869565	6.52173913	0	46
1130	24193	M00057302A:F08	MA182:A05	67.39130435	30.43478261	0	46
1131	24197	M00057302C:H09	MA182:C05	32.60869565	0	0	46
1132	24204	M00054496A:B09	MA184:F05	2.173913043	0	21.73913043	46
1133	24208	M00054496A:H05	MA184:H05	28.26086957	0	0	46
1134	24209	M00042460B:A08	MA182:A11	30.43478261	0	0	46
1135	24210	M00054524B:B09	MA184:A11	52.17391304	0	0	46
1136	24212	M00054526C:E05	MA184:B11	54.34782609	0	0	46
1137	24213	M00042516B:A08	MA182:C11	47.82608696	0	0	46
1138	24215	M00042517D:H10	MA182:D11	43.47826087	0	0	46
1139	24216	M00054527B:H11	MA184:D11	32.60869565	0	0	46
1140	24217	M00042517D:H11	MA182:E11	43.47826087	2.173913043	4.347826087	46
1141	24222	M00054529C:G04	MA184:G11	39.13043478	0	0	46
1142	24223	M00043300D:A06	MA182:H11	32.60869565	0	0	46
1143	24230	M00054958A:G10	MA198:C05	0	0	26.08695652	46
1144	24232	M00054958B:B07	MA198:D05	0	0	28.26086957	46
1145	24240	M00054961D:E08	MA198:H05	32.60869565	0	2.173913043	46
1146	24246	M00055015C:H02	MA198:C11	36.95652174	0	0	46
1147	24250	M00055016B:D03	MA198:E11	43.47826087	2.173913043	2.173913043	46
1148	24265	M00055764D:D05	MA170:E05	50	6.52173913	0	46
1149	24275	M00055815C:E08	MA170:B11	34.7826087	0	0	46
1150	24283	M00055819B:B12	MA170:F11	0	0	86.95652174	46
1151	24287	M00055820C:H11	MA170:H11	47.82608696	10.86956522	4.347826087	46
1152	24289	M00055204B:C04	MA196:A05	60.86956522	23.91304348	0	46
1153	24295	M00055209A:C09	MA196:D05	36.95652174	2.173913043	0	46
1154	24311	M00055252C:G12	MA196:D11	23.91304348	0	0	46
1155	24354	M00056934C:D08	MA177:A05	39.13043478	8.695652174	0	46
1156	24355	M00055989C:D03	MA179:B05	0	0	21.73913043	46
1157	24360	M00056937C:G12	MA177:D05	41.30434783	2.173913043	0	46
1158	24367	M00055997B:A02	MA179:H05	0	0	21.73913043	46
1159	24373	M00056087A:G01	MA179:C11	0	0	26.08695652	46
1160	24375	M00056091A:H05	MA179:D11	6.52173913	0	26.08695652	46
1161	24378	M00056966B:A05	MA177:E11	0	0	36.95652174	46
1162	24379	M00056093A:F08	MA179:F11	2.173913043	0	32.60869565	46
1163	24383	M00056096C:H10	MA179:H11	0	0	23.91304348	46
1164	24399	M00054766B:E10	MA188:H05	56.52173913	4.347826087	0	46
1165	24403	M00054817B:H09	MA188:B11	32.60869565	0	0	46
1166	24407	M00054818D:G04	MA188:D11	63.04347826	4.347826087	0	46
1167	24450	M00042851D:H04	MA172:A05	60.86956522	13.04347826	0	46
1168	24452	M00042853A:F01	MA172:B05	54.34782609	2.173913043	0	46
1169	24457	M00055426A:G06	MA168:E05	0	0	84.7826087	46
1170	24467	M00055496A:G12	MA168:B11	0	0	41.30434783	46
1171	24475	M00055509C:C02	MA168:F11	2.173913043	0	23.91304348	46
1172	24477	M00055510B:F08	MA168:G11	0	0	73.91304348	46
1173	24479	M00055510D:A08	MA168:H11	28.26086957	2.173913043	2.173913043	46
1174	24483	M00056748C:B08	MA175:B05	76.08695652	19.56521739	0	46
1175	24485	M00056749A:F01	MA175:C05	13.04347826	6.52173913	69.56521739	46
1176	24493	M00056754B:A10	MA175:G05	2.173913043	0	41.30434783	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
1177	24495	M00056754B:H06	MA175:H05	2.173913043	0	41.30434783	46
1178	24521	RG:1653390:10014:E05	MA163:E05	4.347826087	0	34.7826087	46
1179	24525	RG:1669553:10014:G05	MA163:G05	43.47826087	6.52173913	0	46
1180	24547	M00043355A:H12	MA183:B05	52.17391304	2.173913043	0	46
1181	24549	M00043355B:F10	MA183:C05	56.52173913	4.347826087	0	46
1182	24557	M00043357B:B10	MA183:G05	56.52173913	6.52173913	0	46
1183	24558	M00054557C:D09	MA185:G05	36.95652174	0	0	46
1184	24559	M00043358B:G11	MA183:H05	47.82608696	6.52173913	0	46
1185	24561	M00043396D:B04	MA183:A11	45.65217391	2.173913043	0	46
1186	24576	M00054612D:D11	MA185:H11	41.30434783	8.695652174	0	46
1187	24578	M00055409B:D08	MA199:A05	58.69565217	0	0	46
1188	24580	M00055409D:F06	MA199:B05	36.95652174	0	0	46
1189	24582	M00055410A:A06	MA199:C05	0	0	21.73913043	46
1190	24587	M00056659A:D08	MA186:F05	6.52173913	2.173913043	30.43478261	46
1191	24599	M00056704C:H08	MA186:D11	30.43478261	0	0	46
1192	24609	M00055553C:B06	MA169:A06	0	0	91.30434783	46
1193	24610	M00056280B:D10	MA181:A06	2.173913043	0	21.73913043	46
1194	24614	M00056282D:G10	MA181:C06	0	0	54.34782609	46
1195	24622	M00056288B:A12	MA181:G06	54.34782609	8.695652174	0	46
1196	24627	M00055686D:E11	MA169:B12	0	0	30.43478261	46
1197	24630	M00042346B:F09	MA181:C12	2.173913043	0	34.7826087	46
1198	24633	M00055698C:E05	MA169:E12	0	0	34.7826087	46
1199	24634	M00042347C:D07	MA181:E12	2.173913043	2.173913043	63.04347826	46
1200	24635	M00055702C:C04	MA169:F12	0	0	26.08695652	46
1201	24638	M00042348C:F03	MA181:G12	56.52173913	6.52173913	0	46
1202	24648	M00055335D:E01	MA197:D06	28.26086957	0	0	46
1203	24708	M00056180C:E06	MA180:B06	0	0	73.91304348	46
1204	24712	M00056184B:G11	MA180:D06	65.2173913	4.347826087	0	46
1205	24721	M00056514A:F06	MA173:A12	23.91304348	0	0	46
1206	24727	M00056514C:H11	MA173:D12	56.52173913	0	0	46
1207	24741	M00054674D:C05	MA187:C06	54.34782609	6.52173913	2.173913043	46
1208	24743	M00054675A:H07	MA187:D06	34.7826087	6.52173913	19.56521739	46
1209	24744	M00054878A:G12	MA189:D06	39.13043478	0	0	46
1210	24751	M00054676B:D07	MA187:H06	45.65217391	0	2.173913043	46
1211	24755	M00054725A:E09	MA187:B12	54.34782609	8.695652174	0	46
1212	24758	M00054924C:B09	MA189:C12	0	0	21.73913043	46
1213	24759	M00054726D:B04	MA187:D12	32.60869565	4.347826087	4.347826087	46
1214	24762	M00054927A:H09	MA189:E12	60.86956522	4.347826087	0	46
1215	24763	M00054727C:F11	MA187:F12	2.173913043	0	21.73913043	46
1216	24767	M00054728A:H05	MA187:H12	36.95652174	4.347826087	4.347826087	46
1217	24768	M00054930B:G05	MA189:H12	36.95652174	2.173913043	0	46
1218	24772	M00057214C:G11	MA193:B06	43.47826087	2.173913043	0	46
1219	24776	M00057216C:G01	MA193:D06	0	0	95.65217391	46
1220	24780	M00057217C:B07	MA193:F06	26.08695652	0	0	46
1221	24803	M00042695A:H04	MA167:B06	45.65217391	4.347826087	6.52173913	46
1222	24805	M00042695D:D09	MA167:C06	10.86956522	6.52173913	67.39130435	46
1223	24808	M00042771A:D01	MA171:D06	58.69565217	13.04347826	0	46
1224	24810	M00042772D:F02	MA171:E06	43.47826087	6.52173913	0	46
1225	24812	M00042773A:A12	MA171:F06	45.65217391	6.52173913	2.173913043	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
1226	24813	M00042699B:B10	MA167:G06	0	0	84.7826087	46
1227	24817	M00042889A:H07	MA167:A12	0	0	76.08695652	46
1228	24818	M00042819A:C09	MA171:A12	47.82608696	2.173913043	0	46
1229	24820	M00042819C:B03	MA171:B12	32.60869565	0	0	46
1230	24821	M00042895B:C02	MA167:C12	60.86956522	2.173913043	0	46
1231	24822	M00042823B:A02	MA171:C12	23.91304348	0	0	46
1232	24825	M00042895D:B04	MA167:E12	0	0	63.04347826	46
1233	24843	M00056564B:F11	MA174:F06	47.82608696	6.52173913	0	46
1234	24845	M00056564C:E08	MA174:G06	56.52173913	30.43478261	0	46
1235	24849	M00056615D:A01	MA174:A12	32.60869565	2.173913043	4.347826087	46
1236	24861	M00056620D:F02	MA174:G12	0	0	54.34782609	46
1237	24865	RG:359184:10009:A06	MA158:A06	30.43478261	0	0	46
1238	24887	RG:428530:10009:D12	MA158:D12	0	0	36.95652174	46
1239	24897	M00057310A:A07	MA182:A06	47.82608696	6.52173913	2.173913043	46
1240	24908	M00054503C:H10	MA184:F06	39.13043478	2.173913043	0	46
1241	24917	M00043302C:D03	MA182:C12	47.82608696	8.695652174	0	46
1242	24924	M00054535B:F10	MA184:F12	28.26086957	2.173913043	0	46
1243	24926	M00054535C:D10	MA184:G12	34.7826087	0	0	46
1244	24928	M00054535C:H09	MA184:H12	36.95652174	6.52173913	0	46
1245	24934	M00054964B:A08	MA198:C06	30.43478261	4.347826087	2.173913043	46
1246	24936	M00054966C:H01	MA198:D06	47.82608696	6.52173913	0	46
1247	24952	M00055022D:F01	MA198:D12	23.91304348	0	0	46
1248	24958	M00055026C:C12	MA198:G12	36.95652174	0	0	46
1249	24960	M00055027B:C11	MA198:H12	39.13043478	4.347826087	2.173913043	46
1250	24985	M00055826D:C11	MA170:E12	2.173913043	0	21.73913043	46
1251	24989	M00055828C:D10	MA170:G12	0	0	45.65217391	46
1252	24991	M00055828D:F12	MA170:H12	0	0	47.82608696	46
1253	24995	M00055215C:E11	MA196:B06	28.26086957	0	0	46
1254	24999	M00055217C:E09	MA196:D06	32.60869565	2.173913043	0	46
1255	25001	M00055221B:C01	MA196:E06	32.60869565	2.173913043	0	46
1256	25005	M00055222A:E02	MA196:G06	36.95652174	0	2.173913043	46
1257	25012	M00056226D:F03	MA180:B12	0	0	26.08695652	46
1258	25019	M00055258A:G02	MA196:F12	26.08695652	0	0	46
1259	25057	M00055998A:A02	MA179:A06	0	0	50	46
1260	25058	M00056945A:B11	MA177:A06	0	0	21.73913043	46
1261	25062	M00056945D:H03	MA177:C06	0	0	23.91304348	46
1262	25063	M00056001A:F11	MA179:D06	39.13043478	0	0	46
1263	25068	M00056946D:B04	MA177:F06	41.30434783	0	0	46
1264	25073	M00056101B:B02	MA179:A12	0	0	36.95652174	46
1265	25081	M00056110C:D09	MA179:E12	0	0	28.26086957	46
1266	25083	M00056111B:H03	MA179:F12	0	0	32.60869565	46
1267	25101	M00054772B:H06	MA188:G06	30.43478261	2.173913043	4.347826087	46
1268	25109	M00054825B:B05	MA188:C12	43.47826087	2.173913043	0	46
1269	25111	M00054831A:G04	MA188:D12	69.56521739	19.56521739	0	46
1270	25115	M00054831D:B07	MA188:F12	58.69565217	4.347826087	2.173913043	46
1271	25156	M00042862D:A12	MA172:B06	76.08695652	47.82608696	0	46
1272	25162	M00042864A:E05	MA172:E06	2.173913043	0	34.7826087	46
1273	25164	M00042864D:E06	MA172:F06	41.30434783	0	0	46
1274	25177	M00055514B:A05	MA168:E12	6.52173913	0	58.69565217	46

Table 4

SEQ ID NO	SpotID	Clone ID	MAClone ID	>=2x	>=5x	<=halfx	Num Ratios
1275	25191	M00056763B:A12	MA175:D06	2.173913043	0	30.43478261	46
1276	25195	M00056767D:F06	MA175:F06	0	0	39.13043478	46
1277	25201	M00056821A:D08	MA175:A12	47.82608696	2.173913043	0	46
1278	25205	M00056822C:G03	MA175:C12	52.17391304	2.173913043	0	46
1279	25209	M00056823D:H02	MA175:E12	54.34782609	13.04347826	0	46
1280	25217	RG:1609994:10014:A06	MA163:A06	2.173913043	0	34.7826087	46
1281	25243	RG:1667183:10014:F12	MA163:F12	34.7826087	4.347826087	0	46
1282	25249	M00043358D:C06	MA183:A06	73.91304348	6.52173913	0	46
1283	25250	M00054558B:E05	MA185:A06	0	0	23.91304348	46
1284	25257	M00043361B:G03	MA183:E06	52.17391304	2.173913043	0	46
1285	25277	M00043408C:D11	MA183:G12	32.60869565	2.173913043	0	46
1286	25280	M00054632A:E11	MA185:H12	23.91304348	4.347826087	0	46
1287	25281	M00056661A:G05	MA186:A06	26.08695652	0	0	46
1288	25283	M00056661C:C11	MA186:B06	30.43478261	0	0	46
1289	25284	M00055412D:E05	MA199:B06	45.65217391	0	0	46
1290	25286	M00055413A:G12	MA199:C06	43.47826087	4.347826087	0	46
1291	25288	M00055414D:A09	MA199:D06	58.69565217	8.695652174	0	46
1292	25301	M00056707B:C01	MA186:C12	10.86956522	2.173913043	69.56521739	46
1293	25317	M00056237D:C10	MA181:D01	2.173913043	0	21.73913043	46
1294	25319	M00056238B:D03	MA181:E01	30.43478261	4.347826087	0	46
1295	25323	M00056239B:D05	MA181:G01	2.173913043	0	21.73913043	46
1296	25325	M00056241B:H07	MA181:H01	0	0	47.82608696	46
1297	25380	I:2921194:04B02:C06	MA118:C06	0	0	54.34782609	46
1298	25388	I:1624865:04B02:G06	MA118:G06	26.08695652	2.173913043	0	46
1299	25389	I:1728607:04A02:H06	MA116:H06	26.08695652	4.347826087	6.52173913	46
1300	25390	I:2827453:04B02:H06	MA118:H06	2.173913043	0	21.73913043	46
1301	25398	I:2070593:04B02:D12	MA118:D12	39.13043478	4.347826087	2.173913043	46
1302	25405	I:2683114:04A02:H12	MA116:H12	6.52173913	2.173913043	26.08695652	46
1303	25419	I:1809336:02A02:G06	MA108:G06	0	0	56.52173913	46

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
1		2.128801	1	1	1	1.4205775	1	1000
2		0.6825724	0.7069319	0.5065385	0.5136583	0.653875	1	0.3601765
3		1	1	1	1	1.6486853	1	1
4		0.2794264	0.5458162	0.2749892	0.3184148	1	0.5530271	0.5955789
5		0.5904543	0.2721974	0.6867976	0.6329049	0.4980132	0.9139001	0.3071505
6		0.6222916	0.300322	0.6511049	0.7847649	0.557357	1	0.371577
7		1.8284428	2.5304701	0.7096727	1.4761251	1	1.6635898	1.8967177
8		2.5110151	1	2.3108704	2.4245002	1.6127135	2.1201773	1.4131083
9		1	0.4035251	0.7255718	1	0.6251442	0.4107112	0.725505
10		1.078641	0.3154543	0.2304271	0.5293137	0.7338017	0.6638112	0.6031687
11		1	0.7376916	0.3105158	1	0.5290522	0.7058015	0.4326032
12		1.3749136	1	1	1.8724187	1.4275301	2.2010755	2.223963
13		1	2.030784	0.511902	0.3810055	0.8079506	1	1.3139832
14		1.3092284	1	1.9423807	1.5467323	2.4001706	1	1
15		0.5326345	0.3818144	0.6079308	0.4668647	0.4344923	1	0.1902738
16		1.9756354	4.4565549	1.6177057	1.9947428	2.3599668	2.2977243	2.527358
17		1	1	1	2.2435514	2.0981131	1	1.6320844
18		1	2.6193568	1.7717377	1.376408	1.5811797	2.0123087	1
19		0.7097665	1	0.2216074	1	1	1	0.3897705
20		1	1	1	1.9675142	3.1171405	1	1
21		1	1	0.3979005	1	0.1533749	1	2.6820023
22		1.9711102	1	3.4511454	1.5172672	2.233715	1	3.1314971
23		2.7722496	1	1.90164	1.7023399	2.3569783	1	2.9169944
24		1.5255324	2.5717712	1.4550554	1.3387965	1.4608706	1	2.0688454
25		0.7543324	0.3426939	0.7255379	0.7552914	0.6658152	1	0.4347491
26		1.5828589	1	1	1	2.4717913	1	3.2757587
27		0.6106194	0.2804768	0.696815	0.7148743	0.4848432	0.9253698	0.361502
28		0.3050711	1	1	0.2595219	2.4893375	1	2.2476082
29		2.1077137	1	3.128655	1.7836162	1.4723574	1	4.5326684
30		3.3500504	4.6085126	2.8873698	3.1891107	4.2573014	3.2306517	6.8094918
31		2.9727261	1	3.766358	6.0948703	3.8799752	4.7812335	4.9631492
32		1.8072214	2.1864045	1.5323531	1.8802969	1.4158509	2.1113331	4.7064844
33		1.7197573	2.0665186	1.3591788	1.4150681	1.8361427	2.0096454	2.0756384
34		1.780097	2.3516946	1.636413	2.3798241	1.7154145	2.1218847	3.2189456
35		1.8770405	2.7402185	1.844494	2.9582193	2.1951738	2.1843311	4.7256641
36		2.2345161	2.6281385	1.3920569	1.9115258	1.6482662	1.627386	2.794879
37		2.4456194	1	1.5231536	2.0282669	1.8309764	1.6095216	4.2361452
38		2.2292617	2.7777225	2.0173304	1.1731178	2.2598077	1.0971816	2.7534506
39		1	0.6133625	0.5012187	0.5629959	0.8259502	0.5659861	1
40		2.8453017	2.4846529	2.54578	1.89804	2.0281	2.2843075	3.7353995
41		5.2427952	1.62607	2.2819307	3.2862529	0.851981	1	3.7360149
42		2.1412668	1.9706703	2.5521997	2.4141428	2.5818433	1.2849025	3.1865666
43		0.6827279	0.3117736	0.684873	0.7373492	0.524463	1	0.4154985
44		0.6045286	1	0.4831435	1	0.4851317	1	0.6165179
45		1.9907659	1.2378146	1	2.8833893	2.4827628	1.6111716	4.080641
46		1.8357721	1	1.3219175	1	1.3362128	3.0627683	1.4800437
47		3.239483	3.1121354	2.1128662	2.1776359	1.9845024	2.3831127	3.4227816
48		0.8421343	0.3464825	0.7022384	1	0.5435894	0.3088469	0.6176619
49		1	1	3.3414161	1	3.568279	2.6053795	1.8156678

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
50		0.0921771	0.4331462	0.6008421	0.0873679	0.1872788	0.1370323	0.1107307
51		3.1797706	1	2.9695083	2.9865921	2.3700796	1.7498969	3.1757342
52		0.7105976	0.2881723	0.6895186	0.7220852	0.5232127	1	0.3499753
53		1	1	1	1	1000	1	1
54		1.5218114	1	3.414695	1	1.7020041	1	1
55		0.5046522	1	1	1	0.4190277	0.001	0.2902667
56		1.9188076	3.3332965	1.7719063	2.1291465	2.0991162	2.1965422	2.9530183
57		0.4132848	1	0.4373751	0.2061158	0.858542	1	1
58		1	0.5551412	0.7273004	1	0.615162	1	0.4545442
59		1.7802471	3.1293733	1.4475003	1.5854896	1.7151191	1.1830904	3.0794257
60		1.7003803	1	2.3967644	1	3.3606304	1	1
61		2.9304121	1.9331291	2.5327613	1.7199115	2.0439768	1.9261658	3.8425878
62		0.8313307	1.6036167	1.4830278	1.3504597	1.6411076	1.4883863	1.7423812
63		1.9339863	2.2409376	1.6814183	1.600673	1.6280132	1.5994068	2.8131119
64		2.0982451	2.1810058	2.2504387	1.8863409	1	1.8562809	4.0629131
65		2.3659778	3.2940771	1.8848563	1.5505271	1.8876546	1.7352879	2.8327175
66		0.6935208	0.2873036	0.7305243	0.7130416	0.4663832	0.837573	0.3711273
67		2.3259479	3.1761276	1.9241574	2.2166384	1.8492783	2.3536854	3.5472954
68		2.1851141	1	3.0579626	2.3118291	1.6585782	1	5.5503178
69		2.5195616	2.6188099	1.7235604	2.326483	1.5174527	1.8841958	3.7556048
70		1	1	1	1	1	1	1
71		0.5564723	1	2.9072939	1	1.4285125	1	1
72		0.7401616	0.5589312	0.5114914	0.2810505	1.0672761	0.6061379	1
73		1	1	1.3660583	1	2.1396772	1	1
74		1.9813456	1	1.7165383	1.6403254	2.3522379	2.3032181	3.3513332
75		1	1	2.1417344	1	2.6900267	1	1000
76		1.4266855	2.790453	1	1.7339563	1.604332	1	2.4249824
77		0.8110959	0.3056499	0.7410064	0.7172458	0.5489412	0.9101861	0.3773285
78		0.6448319	0.2531379	0.7203681	0.7045098	0.4573353	0.8889967	0.3363183
79		0.5751844	0.3552057	0.7571428	0.7296723	0.4719137	0.9150763	0.3555769
80		2.5438336	3.1700268	3.4085698	3.0803053	1.4809588	1.9207147	4.662129
81		3.9129781	6.8575878	3.1407914	2.8455177	3.4137294	2.3441393	6.8900842
82		0.8445685	4.3285919	1.3383339	2.0624989	1.6535218	1.9765245	2.8030132
83		2.4342313	2.6760247	1.805684	2.0401999	2.2814553	2.2595332	2.7812615
84		1.6254034	1	3.3677627	2.3267364	3.2623674	1	4.0667474
85		1.926523	0.5682655	0.3929336	0.4780718	0.3565442	0.3647118	0.3486735
86		1.9044652	3.4763104	1.7120879	2.2080234	1.8051242	1.9977248	3.1360731
87		3.1078926	1	3.5940828	1	3.3055048	2.0396142	3.8089623
88		1.6217682	1	1.3979297	1.2840098	1.8035029	1.800108	2.1162935
89		1.7349253	3.8368088	1.4031118	3.100424	1.4453992	2.1956808	3.20233
90		2.1036121	3.2537429	2.0193429	1.5337389	1.6332001	1.952998	4.3839571
91		1.6404052	1	1.6675066	1.3257678	1.536847	1.8972442	2.3213918
92		3.2164656	4.9677313	3.1439729	1.3224192	3.4047364	2.1059232	5.2950494
93		0.7109354	0.2889371	1	0.7065558	0.4452165	1	0.3419752
94		1.3995396	1	3.1679335	1.4458516	1.9305859	1	1
95		1.8730407	1	7.6096684	5.8262332	1.92915	2.7869334	3.2208154
96		2.7456184	2.809832	1.7379405	1.7501804	1.8046708	1.863928	3.4930307
97		1	1	1	1	2.1859885	1	1
98		2.5857937	2.4077647	3.0653115	1.5920597	1.5856796	1.830564	1.9071399

Table 4

SEQ ID	Patient ID							
	10	15	52	121	125	128	130	133
99		0.7498822	0.2909559	0.802938	0.7583427	0.5782421	1	0.3639793
100		0.6599463	0.2920548	0.7029595	0.8254746	0.4878454	1	0.3840663
101		1.9760376	1	2.548079	1.9512671	2.6027628	2.147006	1
102		1.6287008	1	2.3636062	1.3272341	1.5453247	1.4531618	2.0019336
103		0.5464085	0.5452372	0.4632433	0.6637985	0.4699832	0.6268567	0.3801057
104		0.7207096	0.2773607	1	0.7429863	0.5682324	1	0.3448865
105		2.5086614	2.1645948	1	2.070937	1.6942684	2.4316922	3.1887915
106		2.6920986	1.4907799	2.829289	2.011119	1.3613092	1.2840001	3.2379595
107		3.6747236	1	1.6291976	0.8420503	2.1718567	1	1.6686133
108		1.5291783	3.2852763	1.6258976	2.2946934	1.6463769	2.939751	3.1147238
109		2.6079908	1	1	2.1270688	1.8274657	1	1
110		0.9156744	1.9137795	4.797357	1.9653058	1.5349646	2.2131469	5.6071782
111		1.5008743	2.1373723	1.6035805	1.873897	1.5414637	1.7030259	3.1024476
112		1	1	1	0.2075226	2.0079706	0.001	1
113		0.6000516	0.3291657	0.6983777	0.7675252	0.5328239	0.88196	0.3908592
114		0.6065177	0.2960322	1	0.7697933	0.4550407	0.8825943	0.3499674
115		1.510922	1	2.2748504	1	2.164066	1.3723552	1
116		0.6479631	0.3010226	0.691218	0.788397	0.5391719	0.8854644	0.3760189
117		0.5604721	0.4462612	0.7497898	1	0.4346846	1	0.4192303
118		0.5572122	0.236498	0.4744918	0.63304	0.4449211	0.817726	0.2715999
119		0.6542255	0.2739704	0.7167471	0.7244311	0.5409512	0.8524691	0.3372099
120		0.6568151	0.2857497	0.6464982	0.7470501	0.5020115	0.8073936	0.3512613
121		1	2.9624753	1.5613371	1.95059	1.2510442	1	1.7913599
122		0.3384043	0.2957418	0.4464749	0.1757079	0.2980453	0.2388997	0.2738721
123		2.8662549	1	6.9605967	3.8013491	1.3435706	1.6583853	2.7360856
124		2.0530787	1	3.2430742	5.4357223	3.1639052	1	1
125		2.7141242	1	2.6554843	2.7974465	1.9681584	1.9947446	2.9356454
126		3.5768472	1	1.4714968	0.7677238	2.4981862	1	1.5562021
127		0.7835264	0.2895695	0.8284051	0.7278176	0.5657454	0.8383804	0.4285558
128		0.7476625	0.2813967	0.8040335	0.6823258	0.4813532	1	0.359569
129		1	1	2.1292941	1	1.3906789	1	1
130		1	1	1	1	2.8682026	1	1
131		1	1000	1	1	2.101136	1	1
132		2.3592329	1	1	1.2446715	1.4822092	1.8171966	1
133		3.2121012	2.4922561	2.394053	1.8018812	2.2953741	2.109742	4.1922396
134		0.7253528	0.3509185	0.7046565	0.7200698	0.5597616	0.9427225	0.4835069
135		1	0.2974122	0.8609515	0.7286269	0.5682461	0.8509791	0.4150251
136		0.3757051	0.1981924	0.6750419	0.6743985	0.4194674	1	0.5863165
137		1.5323953	1	2.9988696	1	1.6415953	1	1
138		0.4413046	0.4564106	0.5556664	0.2310934	0.5147693	0.4454465	0.8541135
139		3.5254131	3.6833455	2.9217077	2.9483384	3.1548436	4.0815515	4.9578711
140		1.2965106	1	2.0168061	1.4122241	0.8281349	0.873081	2.1103211
141		2.6894125	3.7340065	1.8106702	2.5584848	1.9848527	1.6040173	3.4527858
142		3.1597128	3.0205491	1.5744585	2.8635988	1.9356629	1.6682055	4.2267251
143		1	2.3212289	1.7710637	2.1946843	2.4266754	1.9617223	4.9916702
144		1.3940814	2.4792504	1	1.7104093	1.3019791	1	2.4762412
145		2.3266771	1	2.9360799	1.3879447	2.6291371	1.7637117	2.864134
146		1.8604892	2.4062865	1.8510945	1.4955753	1.8146462	1.9255862	2.6996593
147		2.451737	1.8519517	1.4901242	1.4160436	1.5551627	1.6377392	1.5831925

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
148		2.1681607	2.0226622	1.9051808	1.7817714	1.8538675	1.2955873	2.7930249
149		0.5715224	0.2731208	0.6138342	0.6984378	0.417001	0.8928241	0.323979
150		0.4322649	1	1.1163694	0.8896316	0.5700049	0.7267695	0.3904647
151		1.886166	1	2.1842897	1.9415482	2.9239122	2.5620881	1
152		2.2130267	2.4239579	1.8672797	1.9627415	1.503321	1.9331486	3.6760933
153		1.4170238	1	2.8197784	1	1.8284688	1	1
154		2.9907143	2.8112175	1.8568161	1.8631425	1.8796304	1.9053548	2.6879195
155		1.5341271	1	3.8170002	2.2515443	2.2888132	1	1
156		2.061459	1	1.9171846	1.2179315	1.4732505	1.7416302	1
157		2.3259104	3.7404652	1.5759241	1.1759723	1.7645082	1	1
158		2.6490341	3.724692	1.4182645	4.8414173	3.7181913	3.556269	2.322307
159		0.6934082	0.3525678	0.8470185	0.7378739	0.6148116	0.8920684	0.4422443
160		0.7873332	0.2647097	1	0.6298705	0.439954	0.8019943	0.3121682
161		0.6748087	0.2968856	0.7093754	0.7035399	0.5096099	1	0.3675218
162		1	0.4564172	1.3935361	1	1	0.7843008	1.4817558
163		1.7151302	2.4530663	1.9699969	1.3690334	1.2533182	2.0120828	2.3446189
164		2.6521599	2.5634663	3.5974154	1.6111766	1.5217122	1	2.9533339
165		0.4701877	1	1.3369311	0.3508098	1	1	1.5998238
166		1.9558135	3.2046931	2.7167713	3.008973	1.4670262	1	1
167		0.4225443	2.0099561	0.4584557	0.2019076	0.3995029	1	1
168		1.3637239	0.3044717	5.9534464	1.2662301	0.6694151	0.1695956	1.3857708
169		1.2739971	4.1479357	1.5671711	1.6819922	1.5052721	1.7562778	2.4040434
170		1	3.389506	1.8166758	1.2615935	1.2726987	1.6617999	2.1378164
171		2.427926	1	1.9139531	1.2856017	2.2065163	1.4747633	2.6022462
172		2.2183776	1.9085958	2.513481	1.3399722	2.2629267	2.2597042	2.1714656
173		2.0947868	2.1173827	1.9808514	1.7989676	1.5649045	1.9460827	2.3416445
174		1.9460017	2.5007034	1.6678949	1.7992101	1.5081918	1.8326986	3.7221844
175		1.7083584	3.704888	1.6472985	1.543023	1.96416	2.2669663	2.5289123
176		1.615731	1	2.4413189	1.9584228	2.9144452	2.8148675	1
177		0.575994	0.4819971	0.6905925	0.4007012	0.441115	0.2459025	0.4628204
178		1.682376	1	1.6880636	1.4416752	2.1061305	1.2073419	1
179		2.4637578	2.7549042	2.3457425	3.1350976	3.0043885	3.2159232	4.1455173
180		1.5694012	2.1670631	1.4638625	1.9464664	1.4058687	1.822483	2.3238929
181		1.3810581	1	1	1.7444632	2.0538628	1.557421	1
182		2.3028447	1.269718	1.6524438	1.3918878	2.30559	1.3332635	1.9642292
183		2.4161144	2.7597536	3.06622	1.713565	1.5672678	1	2.0153381
184		2.3794462	2.7168323	2.9647807	1	4.9553236	1	4.023891
185		1.4646833	1	1.4024989	1.4184508	1.9990738	2.2386419	1
186		2.2789372	1.7749028	2.757074	1.4713261	4.0246594	2.1181221	3.638665
187		2.2403603	2.6853062	1.2630309	1.5938177	1.4127456	1.1667575	3.4160123
188		3.6811093	3.662052	2.2219759	2.5202696	2.1693148	1.767156	4.4224505
189		2.303027	2.3770995	2.9903941	1.8577306	2.5755229	1.517172	2.8028948
190		1	1	0.2956487	0.4181832	1.1055287	0.4341394	1
191		1.7306628	1	2.7420532	2.378923	2.9792371	1	1
192		0.8283657	0.280176	0.8284493	0.7000767	0.5024306	0.842013	0.3347562
193		1.6420137	3.5422865	1.6890129	2.3277506	1.925186	2.3916379	5.6470523
194		1	0.7068841	0.3827434	0.5265918	1	0.6043836	0.6518002
195		0.7159699	0.2686134	1	0.7098193	0.4708213	0.8545834	0.3156555
196		2.6164783	2.4080421	3.5317821	1.6584089	2.7630833	1.318255	3.4018583

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
197		0.6513784	0.3198237	0.838189	0.7168655	0.7678292	0.9529308	0.4569584
198		4.3102263	3.1273445	2.3592344	1.4306103	2.3126456	1.7286247	4.3222446
199		2.1875483	1	2.412163	1.349061	2.007895	1	2.6658128
200		1	1	3.2072162	1	2.1781566	1	1
201		2.4574686	2.0475591	3.1904027	1.9109102	1.6536867	1.9281558	2.3141492
202		2.3172621	1	1.8758946	1.6239396	3.7579692	1	1
203		1.8994575	1	2.0694753	1.9775687	3.0046015	1.848353	1
204		3.7539148	1	1.3444209	1.2391552	2.0122713	2.1771647	1
205		1.7543612	1	1	1	1.7820132	1.3201588	1.3037109
206		1.6067449	3.4836485	1.7990205	2.4481183	1.4793787	1	3.052672
207		2.2707339	2.1975135	2.0523243	1.3658994	2.5986888	1.7552798	2.9632906
208		1	1	1	1	1.8865348	1	1
209		0.3488648	1	0.3895863	0.1271932	0.6732418	0.7011174	0.8991474
210		0.7899443	0.4346653	0.8421844	0.6943513	0.4859218	0.7944836	0.3687999
211		2.9085474	1	4.3626436	2.4765003	1.5645335	1	1
212		4.6968799	2.0605435	1	1	1	1	0.6035395
213		0.6371433	0.256266	0.7190719	0.6681378	0.4972368	0.8540294	0.3055489
214		2.0175633	2.8588913	2.159417	1.3957256	2.3816831	2.0831041	3.0095237
215		3.2062517	1	2.9932781	1.4301506	2.1366063	1.3707173	1
216		0.5635497	0.2942335	0.7843909	0.6935082	0.5445993	1	0.3120657
217		1.2295171	2.9937292	2.7187544	1.4594642	1.4903777	1.8767356	1.9303827
218		2.1585741	1	1.6086782	1	1.1703	1.9847569	1.9069742
219		2.1621235	1	1.5685175	1.396693	1.2223135	1.9702649	2.4114439
220		1.6876518	2.3215726	1.6845515	1.7242708	1.984997	1	2.5641789
221		0.4968028	0.2947535	0.6825485	0.7197689	0.5371589	0.868342	0.3350166
222		0.61263	0.2999643	0.7185281	0.7748473	0.5706644	0.8589341	0.3523106
223		0.5360445	0.3390991	0.6984877	0.7694217	0.494846	0.8092096	0.305967
224		0.677377	0.2962559	0.7919632	0.7770289	0.5015719	0.8469485	0.3437661
225		0.6612438	0.3422619	0.8190198	1	0.7012305	0.8606836	0.5230812
226		2.0445538	1	6.1683936	2.7084878	1.5631045	1	2.6827597
227		1.1976851	2.0822312	1.8324425	1.7082208	2.155128	1.7980125	3.4062055
228		1.3314469	1	2.0493882	1.6213265	1.4892304	1.3779278	1
229		1	1	1.8807826	1	2.7433661	1	1
230		1.9597758	1	2.2314545	2.8232536	2.3326101	2.9753885	4.4885339
231		0.7583107	0.2722765	0.7716499	0.6884657	0.547045	0.8390321	0.3443657
232		1	0.2889171	2.302926	1	7.2663203	1	1
233		1	1	20.127951	1	1.7587442	1	1
234		1	1	1	1	1	1	1
235		1	1	0.2501569	0.5970379	0.5738109	0.1850908	0.2228578
236		2.9614399	1.7572965	2.635342	1.9550531	2.367359	1.1873555	3.3692584
237		2.5993425	1	1	1	2.365243	1	3.3394042
238		0.6567508	0.1280736	0.1524233	0.2599495	0.1750637	0.2035966	0.2783928
239		0.6530566	0.2890436	0.8304591	0.656479	0.4825211	0.8715776	0.3311112
240		0.5757742	2.2335948	0.341273	0.7184133	1.3059912	0.7870293	0.6021115
241		0.7007483	2.1860234	0.4111754	0.780561	1	0.822667	0.6969682
242		2.921351	1.3047465	6.0352542	2.8365248	8.2384593	2.2129282	2.94961
243		2.4623584	2.7470603	1.8964114	2.8562472	1.8897432	1.5125867	3.997161
244		1.7507099	1	1.6321677	1.3735405	2.2725036	1	2.8302718
245		2.4312717	3.2813227	3.2902895	1	3.4594292	1.6881037	2.5495673

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
246		1.3079255	2.1449752	1	1	1.5182222	1.3165695	3.5997219
247		2.5467504	3.1867798	2.4927557	4.1788218	3.4161888	2.2187377	5.9504315
248		1.3638848	1	2.612714	1.5998578	2.3399611	1	1
249		0.8337059	1	0.4808481	0.8791383	0.3749698	1	0.3784646
250		2.6837828	1.8478046	2.0837396	2.2411504	2.0467386	1	3.2960981
251		1.3453228	1	1.8601547	1.4704349	1.9010651	1	2.4158778
252		5.6583801	1	6.9689321	1	6.0412794	3.8887864	3.0518909
253		1	1	2.3205458	0.6839687	1.7408888	1.433582	2.6466647
254		1	0.2570591	0.8126933	0.7178918	0.5484671	0.8471246	0.3225194
255		1	1	1	0.6734247	1	1	1
256		1	1	2.2893367	1	1.2602639	1	1
257		0.6579143	0.2627731	0.7588273	0.6716081	0.5201211	0.8705189	0.2980064
258		1	2.8905162	3.715114	1.7617568	1.3112125	1.2304244	2.1411063
259		1	1.9215197	3.9324226	2.1377976	2.5807991	2.1468002	3.0441749
260		1	0.558349	0.2448676	0.19916	1	0.4224817	0.3110006
261		1	2.1973595	2.1040336	1.5853955	1.8946484	1.2792879	2.7987607
262		1	1	3.6310846	1	3.7921616	1	1
263		1	1	3.387612	2.2612687	6.2909455	2.9002549	3.8426667
264		3.6864924	1	1.3687894	1	2.1015207	1	1
265		0.6953867	0.2828283	0.8679173	0.7854517	0.5797673	1	0.3579122
266		0.2261426	1	0.0195719	0.020125	0.0143448	0.0540226	1
267		3.32988	1.5427084	2.7641948	1.9660655	2.1022352	1.2184258	3.1737933
268		1	2.756115	2.142375	1.6065961	2.7594216	2.5873952	3.7642676
269		1.8234672	2.4188159	2.6119078	2.7204918	2.5802976	2.6618919	5.2123821
270		1.3257475	3.5267484	1.909596	2.1410546	1.7131749	1.8450031	3.1165463
271		0.5704233	0.2705673	0.7280112	0.6862628	0.5088748	0.8118863	0.3145272
272		0.5686003	0.3795246	0.8248751	1	0.7120853	0.815686	0.4855898
273		2.0224478	3.1885621	2.4241578	2.0209367	1	1	5.1615572
274		0.5620645	1	0.4442743	0.47328	0.5716606	0.2917321	0.4587257
275		0.7242536	0.3455566	0.8053061	0.7218363	0.5668927	0.8587365	0.345991
276		5.1293324	1	2.9082928	1.3236647	3.9846411	1.5769124	0.6859701
277		1	1000	4.7574035	1.2408252	6.05368	1	1
278		1.4513275	2.4956282	3.3303016	2.0794445	2.3992568	1.6143071	1.9784226
279		2.2131018	3.4120044	2.2570941	1.3599688	3.4963285	1.8743404	2.5448493
280		1.6494074	1	1	0.5551822	2.6969174	1	2.1081514
281		0.7607127	0.3038742	1	0.6439868	0.5565464	0.8419101	0.3251861
282		0.851544	2.7603609	1.8877988	1.4237451	1.4564669	1	2.1466527
283		1.3175121	0.747264	1.9021062	1.3346142	1.5662098	1	1.3120897
284		2.0063629	2.7096716	1.8131383	1.1664556	2.4848445	1.2659823	2.3733213
285		1	0.6136086	0.4948497	0.5008441	1	0.4996318	1
286		1.463241	3.1649074	1.5414602	1.2983226	2.4236182	1.2299346	1.6510589
287		5.5326928	1	3.8934519	3.4574164	1.838135	1.5940565	2.6261123
288		2.686678	1	4.4489418	2.5649362	1.9590487	1	2.8405914
289		2.3579354	2.3332331	2.4366551	1.9739504	1.5939512	1.7212514	3.0527825
290		2.2531853	2.4139744	2.2419316	1.8652574	1.6282193	1.5667361	3.2983308
291		3.0001615	1	1.6197882	2.893074	2.0188872	1.8567811	3.7476994
292		2.0054246	2.2366218	1.7339597	1	1.9900465	1	2.0247267
293		0.7764812	0.6944229	1	1	1	1	1
294		1.6681409	1	1	2.1931521	2.1731964	2.3562235	2.0495237

Table 4

SEQ ID	Patient ID							
NO	10	15	52	121	125	128	130	133
344	0.4442926	0.5692713	1	0.2376455	0.3545633	0.6695045	1	1
345	0.8113647	1	1	0.18838	0.9021887	1	1	1
346	1	0.5370217	0.3707231	0.6652894	0.5378865	0.3425223	0.7381168	0.3077185
347	0.6606392	0.5732764	0.2674427	0.6387108	0.6028544	0.367763	0.8602043	0.3256121
348	2.8784443	2.6578223	2.486229	1.4587711	2.3554197	1.8737496	3.2001848	3.633087
349	3.7245562	1	1.8897318	2.8041531	2.5630896	2.2354807	1.2763535	2.4292271
350	0.2603503	1	1	0.4524696	0.4934648	0.7654041	0.727094	1.2567125
351	1	1.6651526	1	2.8744452	1.8213934	1.6733352	2.3007929	3.656819
352	1.2453869	1	1	2.4601538	1.9040629	1	2.7437436	1
353	1.7546068	1	5.8874052	2.6141077	1	1.9162068	1.555069	2.7514309
354	0.8379492	1	1	0.6020971	0.4853099	1.2599135	1	1.5453855
355	0.303759	0.5563121	1	0.5662329	1	1	0.3210737	1
356	1	1	1	3.5866069	2.4247754	3.2985797	1	3.3074118
357	0.3276881	0.6926358	0.5270546	0.5151704	0.6544597	0.5053642	0.6354246	0.8052532
358	1.152169	1	1	0.8213244	1.4166822	1.4626775	2.0077988	1
359	0.5229462	0.6668522	0.3205479	0.6826186	0.6572182	0.4274298	0.8425198	0.3437188
360	0.1628232	0.522968	1	0.7147993	0.5138362	1	0.761779	0.7149092
361	2.4719118	1	1	0.4879976	0.4620638	0.5616783	0.4513966	1
362	1	1	1	1	3.4819882	1	1	1
363	1.9723344	1	2.6362033	2.8643647	2.0116872	1	1.5233637	2.7543816
364	1.760941	2.0479068	4.6234621	2.0540901	1.2029114	1.7211648	1.6619849	3.0351019
365	1.9496644	1	1	1	0.3710195	2.0171216	0.2402065	1
366	1.3087011	3.6771311	3.0353148	1.9031559	1.6447205	1.6179004	1.6149473	5.8262411
367	1	2.1148725	0.2679718	2.8094835	2.3922973	0.4128446	1	0.6806131
368	8.1061813	1	1	4.2924535	1.4715086	4.1988575	1	2.2525787
369	1	1	4.1528799	1.2911228	0.8602536	0.792541	1.0887411	0.5059529
370	1	0.5294386	0.5102737	0.6625295	1	0.4739472	0.6602059	0.6968894
371	1.6311601	1	3.2035472	1.512367	1.763473	1	2.3055892	1.8123305
372	0.7175657	0.1204822	1	1.8712199	0.0746514	0.0987439	0.1318715	0.1195276
373	0.5909133	2.3876135	3.0546829	1.8063145	1	2.2499079	0.9172218	2.7904135
374	5.2858416	1	1	1.9459529	1	1.5585909	1	1.5100716
375	1.5512404	2.0296116	3.1222065	1.5956387	2.4930327	1.3620375	1.7626013	4.2934791
376	2.005923	2.2294585	1.3472682	1.2360698	2.7294602	2.1964585	1.4601727	4.2006657
377	0.9252914	1.2824093	1	0.1577876	1	0.4948186	0.5629806	0.5085328
378	0.6172049	1	1	1	0.1915413	0.7207485	0.681542	1
379	0.7121089	0.5875174	0.3071905	0.8233288	0.5979571	0.4382433	0.93824	0.4517355
380	1	0.6454423	1	0.5002117	0.5996357	1	0.5944814	1
381	0.5513236	0.583502	0.2901603	0.5856205	0.6182184	0.4110652	0.9013943	0.3662121
382	1.4296419	1	1	2.07081	2.5665387	3.1748493	1	2.3995227
383	1	1	1	0.4376979	0.5410938	0.6324884	1	1
384	2.2865184	1.4289664	1	1.6169752	3.0261087	1.9112053	2.5708375	1.7739554
385	2.6709648	1	1	2.6162378	1.8560196	2.1238348	1	2.0398353
386	0.5112171	0.7472544	0.3245374	0.5666119	0.6480073	0.4059264	0.8017288	0.3613836
387	0.5258029	0.4250636	0.2876542	0.6025178	0.6055031	0.3699821	0.8895616	0.2982983
388	0.8109684	0.4745893	0.333679	0.5274834	1	0.4618078	1	1
389	1.3401465	1	3.0891404	1	1.6973081	1.577305	2.0815068	2.4293059
390	0.4677057	0.5273297	0.4281925	0.4398897	0.533787	0.438367	0.6238708	0.432903
391	0.2412336	0.6198195	1.265235	0.4688556	0.7909308	1	0.8782422	1.1940059
392	2.7681608	1.6459829	4.5312601	1.8837505	2.8944853	1	2.3860324	3.8240077

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
393	0.6951101	0.4671504	1	0.6855789	0.5040801	0.781487	0.519348	1
394	0.5540372	0.4896461	0.3136589	0.623143	0.6365221	0.4050264	0.8967206	0.3218015
395	0.880695	2.3344907	2.6791114	1.4048265	1.2322501	1.8568835	1.5927811	2.1551104
396	1	1	1	1	0.1520867	0.2692871	0.1440525	0.20584
397	1.4655328	1	1	3.054151	1.5940556	2.7345655	1	3.4636498
398	1.8384851	1.6178223	2.0194056	1.6597783	1	1.6559951	1	2.078021
399	0.2495937	1	1	0.3357659	0.8123218	0.6062034	0.683711	0.3047757
400	1	1	1	0.2674269	0.1752196	0.4541682	1	1
401	0.2158921	0.7385362	0.6441712	0.1236799	0.2992835	0.5422153	0.5861575	0.5395705
402	0.2599787	1	1	0.6316226	1	1	0.001	1
403	1.7231601	1	1	1.9764365	0.1957956	0.185946	0.1266768	0.2748188
404	0.7211498	0.6470001	1	0.4624495	0.5736056	0.5918724	0.5317653	0.66911
405	0.2351368	0.342885	1	0.1924181	0.242257	0.5132991	0.1623002	0.4462127
406	2.4879387	2.0826697	5.7073753	2.3498272	1.8943706	3.68944	3.4379451	4.2506069
407	0.3056018	4.2848436	1	0.4497921	0.4079558	0.3027032	0.3019759	0.5301424
408	1.8208819	2.0777465	3.4301067	1.7718051	2.2830684	1.676626	1.9527852	3.5135831
409	0.2857268	0.3572892	1	0.4860388	0.2663444	1	0.001	1
410	2.6829165	3.3420338	3.6813995	4.5569374	1.9631384	2.3533371	1.8131142	3.883385
411	0.2335164	0.3361267	1	0.1492862	0.4832086	0.2898768	0.4020229	1
412	0.5637578	0.4262328	0.3706443	0.6454719	0.6042357	0.4207521	0.7390119	0.4427176
413	1.2717475	1	1	2.9320119	2.67063	3.3157275	1	2.5573149
414	0.5041101	0.0494624	0.2739381	0.1632485	0.1474648	0.1198144	0.0846609	0.1699659
415	0.5629307	0.0428303	1	0.082723	0.0153272	0.0514501	0.0389858	0.062825
416	2.1341442	1	1	1.6082892	1	2.1005383	1	2.7515177
417	1.8803671	1	2.8203202	1.5221576	1.7033987	2.2212046	1	2.7826343
418	3.0497682	1	1	1	1	3.374192	2.7399674	1
419	1.1834385	1	2.7744045	2.3146618	0.6942249	1.439697	1	2.9426198
420	2.3394282	2.3674769	1	1	2.4095679	0.6439133	1	1
421	1	1	1	1.3832678	0.2939583	0.4437257	1	0.3405551
422	1.1531693	1	1	1	1	1	1	1.1392756
423	1.2660968	1	1	1.762048	1.4231949	2.7002426	1.3982951	3.4558075
424	0.6008193	0.5843478	1	0.3587657	0.5632868	0.534514	1	0.540604
425	1.3122017	1	1	1.6986264	1.8380373	1.9456795	1	2.612195
426	0.4046423	1	1	0.5985479	1	1	0.4381954	0.4262284
427	2.4644327	2.7955706	5.3862956	2.9757719	2.1844948	2.1181738	2.8554208	4.4961237
428	0.5258669	0.6785149	0.2817722	0.6834202	0.5769458	0.4700244	1	0.3223774
429	2.0695351	1.5450478	1	1.380008	2.5564639	1.3372433	2.0387323	2.115544
430	1.4437466	1	1	1	2.3031549	1.5216091	2.4213734	1
431	1	1	0.4722586	1.77002	1	0.1934069	0.305773	0.5164066
432	0.0556664	0.3205927	1	0.2088465	0.14018	0.0980362	0.1385489	0.4741183
433	2.4697199	1.7649116	2.2276442	1.9431914	1.4920652	2.3923043	1.2767718	3.7435495
434	0.5718492	0.6322894	0.2795341	0.7906787	0.6727164	0.512564	0.8044501	0.3406655
435	1	1	1	1000	1	1	1000	1
436	1	1	0.001	0.3948163	0.3851117	0.2698092	1	1
437	0.7775271	0.5920849	0.3736966	0.6212472	0.6118788	0.4948666	0.876944	0.4388833
438	2.2668873	1	1	3.2267779	2.1918019	2.3954439	1	3.439192
439	2.6744397	2.0968419	3.84198	1.8752901	1.6350771	2.3303498	1.6703517	3.7616719
440	1.958021	1.3693334	2.6493448	1.4615418	1.4561413	1.3777975	1.8537074	2.36555
441	1.1088571	1.6189458	2.0011692	2.8533924	1	1.8209873	1.966459	2.4944426

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
442	0.6375218	1	1	0.4666234	1	0.4180453	1	0.3355373
443	0.5384405	0.7428337	0.3326066	0.6743428	0.5786399	0.4785227	0.7554005	0.3571232
444	0.6290312	0.5801808	0.323954	0.7293856	0.6600083	0.4843004	0.8475975	0.3600582
445	1	1.2858847	2.5882229	1.4410038	1.2313977	1.3539788	1.4556884	3.7954079
446	1	0.6314926	1	0.5540759	0.4335806	1	0.6612292	1
447	1.5557686	1	1	3.2629626	1	1.631352	1	1
448	1.9853052	1.5883002	2.1962821	1.8021193	1	1.7471956	1.7744364	1.6829251
449	2.6744397	2.0867225	3.0485946	1.7944439	1.2830381	2.20923	1.3985134	2.416651
450	0.713209	1	1	0.3398071	0.4791055	0.6067736	0.4977883	0.4655028
451	1.6375642	1	1	1.534702	1.435012	1.7452788	1	3.0794888
452	1	1	1	4.1143521	1	1	1	2.5238314
453	0.4491276	1	1	0.3946607	0.5742285	0.7740261	0.5417305	0.5446751
454	1.3672041	1	0.425609	1	1.7717223	2.0924522	1	2.5695911
455	0.6031108	0.6284725	0.3349641	0.673348	0.6554436	0.5168647	0.8749143	0.3879164
456	0.5627876	1	1	0.4791827	0.4269425	0.5176685	1	0.626656
457	0.3313998	1	1	0.4755508	0.3995037	0.5392131	0.5509118	1
458	1	1	1	9.5853307	1	3.8690861	2.1040437	4.7333328
459	1.7141965	1	1	1.6472985	1	1.3830599	1.2214992	1.4017314
460	1000	1	1	1	1	1	1	7.8998755
461	0.6104323	0.7337354	0.3239323	0.6866052	0.6991281	0.5832367	1	0.3730997
462	4.7112811	1	1	4.9789798	1	1.5365928	1.6835038	4.8866121
463	2.6926224	2.06042	5.6340526	1.6400159	3.2443275	2.4100704	3.0296237	5.4706643
464	2.0191047	1.6731027	3.3685685	1.2095597	2.733162	1	2.1800256	3.4686833
465	1.6226683	1	1	1.3561697	1.7218802	1.7498406	2.0737974	2.4362804
466	1	0.1111372	1	1	0.481427	0.4979513	0.3257198	0.1622972
467	1.7951749	1.7668308	1.8209774	1.7301578	2.137926	2.0207078	2.3457966	2.4446276
468	2.8482478	2.203166	2.7201319	2.0143191	1.6893349	3.0436305	1.3378229	3.8240393
469	1.6758009	1	1.5633994	1	1	3.5697629	1.6304367	1.7267124
470	0.7651109	0.6673585	0.2985534	0.6814795	0.6470533	0.5143296	0.8484404	0.3433322
471	0.2916413	1	1	0.2084743	0.2462472	0.4312427	1	0.3277029
472	0.5741041	0.4468952	0.3083657	0.6420226	0.6351519	0.4619245	0.8544774	0.3158211
473	2.5437947	1	4.502954	1.6773897	2.1712611	2.0370655	2.0818938	5.5784364
474	0.8383235	1	1	0.6039952	1	0.9079448	0.7659081	1
475	1.8783626	1	1	5.3790816	2.1302506	4.7622946	3.2532946	4.1575884
476	2.2233966	1	3.2814944	2.547591	1.5458592	2.303577	2.5658305	5.6301764
477	1.4694238	1.714184	1.7790315	1.97715	1.5004286	3.1725203	1.6412196	3.3841461
478	3.1966728	3.0908081	5.9709264	1	1	1	1	0.409242
479	2.2100788	1	1	1.8495501	1.9875045	1.8176759	1.2792148	2.2874665
480	22.373396	0.1022477	1	1	0.4085332	1.72607	0.2488209	1
481	0.514213	1	1	0.3862923	0.4179345	0.6455141	1	1
482	1	1	1	1.8428512	1.4794374	2.9125972	1.5009294	5.0563413
483	0.6242783	0.5235195	0.311484	0.6617291	0.6789427	0.4133736	0.8569212	0.3736914
484	0.4822461	1	1	0.4226807	0.6236803	0.64076	0.6281225	1
485	1	1	1	1.7906824	1.4590256	2.1828832	1	3.7613169
486	0.0458707	0.0623714	0.2433231	0.0426479	0.0692868	0.0701643	0.2046931	0.155591
487	1.1404353	1.8223802	1	1.9174609	2.2773728	3.0626194	2.2578817	2.8046936
488	1	0.5362429	0.3099186	0.6928381	0.6798675	0.5123167	0.9402982	0.3820939
489	2.8267995	1	3.8922939	3.0291129	2.05121	2.1302514	1.9281558	4.2604295
490	1.8903301	1	1	2.4172353	1.6237174	1.7626052	1.6762274	2.1916235

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
491	0.4999533	1	1	0.5556034	0.5077706	0.4560163	0.6066305	0.6696071
492	2.8316204	2.6504646	2.8797649	2.6817944	1.9273586	1.821001	2.2373002	3.9629201
493	1.0736938	0.6141609	0.3961357	1.2898887	0.5590442	0.4848432	0.3716782	0.6051016
494	1.5022783	1.950391	3.0484464	2.9537767	1.4467134	3.678702	1.7296927	4.9085768
495	0.1932506	1	1	0.0598356	0.1506836	0.1633708	1	0.2649884
496	0.4134927	1	1	0.4333911	0.7426918	0.5293614	0.7309083	1.2020059
497	0.6787866	0.4996203	1	0.2977085	0.4936883	0.2934561	1	1
498	1	1	1	5.7988355	1	2.4050689	1.6654454	1
499	2.0471591	1.7878638	3.9666439	2.6152825	1.3494019	2.2976962	1.7484966	2.2604288
500	0.7492813	0.1041731	1	0.0418922	1.7762303	1	0.2237205	0.4495422
501	1.6982148	1.2730008	2.8496678	1.4555103	2.0170439	1.7008156	1.7763364	2.8973098
502	0.352296	1	1	1	0.552023	0.3743652	1	1.4398383
503	1.4666282	1	2.664994	3.0287188	1.6096711	1.4935311	1.4649481	3.1668978
504	1.899354	1	3.0512645	1.7464157	1.1866467	1.5902276	1	2.7359672
505	0.3421261	1	1.6238805	0.5545577	1	1	1	1
506	2.4266825	1.5564401	3.7543487	1	2.2055612	0.4395143	1	2.0687349
507	1	2.071325	4.9124738	3.0261595	1.6274285	2.4906635	1.5159397	3.488147
508	1.6999869	1	1	1	1.4856728	1.3236336	2.0560445	3.4267106
509	1.6513453	1	1	2.5958879	1	3.4658047	1	1
510	1.5183943	1	1	0.5328322	0.3649334	0.5504732	1	0.5576929
511	5.5512722	6.7340176	23.158287	1.6085948	7.1658173	4.7224961	6.8443711	13.768444
512	1	1	0.001	2.657379	0.3753616	1.581908	1	2.6598719
513	0.3312994	0.7150168	0.299433	0.6302502	0.6040716	0.6550429	0.8118569	0.3473875
514	1.7820214	2.6904982	4.3747918	3.4868148	3.2875679	4.9114993	4.2245578	6.9744005
515	1.678864	1	1	2.1690249	0.6996686	1.0716317	0.5650721	1
516	1.4765355	1	1	1.384646	2.0548802	2.2630778	1	2.5990825
517	0.2839163	1.2781903	0.2155274	0.3674793	0.2871073	0.3104871	0.1353606	0.2959314
518	1	1	1	1	3.0688879	1.8267032	1	1
519	0.4851429	1	1	0.4704213	1	0.5112656	1	1.2299667
520	0.1256607	1	1	0.5037841	0.1681476	0.236874	1	0.4016128
521	2.6446208	1.3761871	2.2270114	2.1577156	1.3467306	1.8476844	1.502087	2.4008008
522	2.5102906	1.5554918	3.4453708	1.6784177	2.2366918	1.7502802	2.6947202	1.1293189
523	1.8706707	1	4.777014	1.9729606	2.2785388	3.1545001	2.2301156	3.3401458
524	0.5457685	0.6254082	0.3126643	0.6107461	0.7272576	0.4027181	0.7757167	0.3834824
525	1	1	2.8392177	2.5839296	1.4431947	2.1147937	1	2.6230669
526	1.8223039	1.7402788	1.7102825	1.7097615	1.4636642	1.7305768	1.6442017	2.5794768
527	1.9763978	1	1	1.7167282	1.2470403	2.6314317	0.7928032	1.8277547
528	1	1	1	1.8752145	1.4867482	2.6893054	1	2.1987084
529	1	1	0.001	1	1	1	1	0.4096917
530	1	1	1	0.3748119	0.5385754	0.3985342	1	1
531	1	1	2.1783542	1.38372	1.3388301	2.7846279	1	2.8714555
532	1.8640472	1	1	1	2.5490205	5.278328	3.2040763	3.9927034
533	0.3270786	0.6193541	0.2452078	0.2511142	0.2257588	0.3530061	0.2157736	0.2620692
534	1.3090186	1.3732967	2.9258487	1.7844366	1	1.6268865	1.9473941	2.3445163
535	2.5606945	1	6.0691609	2.4041286	1	0.3045444	1	1
536	0.5799503	0.5738102	0.2959847	0.6604946	0.6398818	0.5870015	0.8498247	0.3598531
537	1.8771783	1	6.0744518	1.9333064	1.9276717	2.0440798	1.5256986	2.3907652
538	1.8597109	1	1	1.8524202	2.8264662	2.6236341	2.8458964	3.7462793
539	1.5470432	1	4.0264937	2.0606817	1.6005531	2.0161598	1	2.6752804

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
540	1.4276798	1	2.8315261	1.853711	1	2.5665436	1	2.9030771
541	1	1	1.7728957	2.2515271	1.2132553	2.8574921	1	3.0785184
542	1.4472558	1.9373531	3.2266228	2.067683	1.1863303	2.5694703	1.3597118	3.796118
543	0.5545247	0.51392	0.291817	0.6500775	0.6522216	0.5408551	0.8333579	0.3279396
544	0.487606	0.8353522	0.3062709	0.174906	0.5475544	0.5883549	0.643767	0.4622444
545	2.0659202	1	4.333677	1.5166287	1	1.961625	1	3.8735703
546	2.5939293	1	1	2.2910829	1	2.7149033	1	2.3143464
547	1.4179494	1	2.2817042	2.2546893	1.3727108	1.9139396	1.7915403	2.0640722
548	1.3511571	1	2.7208399	2.3463927	0.7809263	2.02461	1	2.839187
549	1	2.737059	2.0794695	2.2942442	1.3447298	1.5804103	1.7908598	1.7299314
550	2.0503678	1	2.2005207	1.6579459	1.406737	2.6447047	1.6323975	1.2999949
551	0.1961424	0.0570151	1	0.0691381	0.3765977	0.6199505	0.0733275	0.0670459
552	1	1	3.5107563	1	1	2.3684926	1	3.2523502
553	0.5828395	1	0.5391297	0.255944	0.426312	0.5772597	0.7831558	0.3219987
554	0.5201015	0.4504621	0.3175066	0.6218114	0.580508	0.5669958	0.763864	0.3437346
555		0.0510751	0.7137075	0.3422263	0.0799665	0.0352161	0.1168537	0.4301022
556		1	1	2.2887177	2.0361937	1.2178273	1.2616143	1.9270454
557		1	1	0.6122802	1.2836703	1.2151686	1.3078435	1
558		1	0.7099259	2.404439	0.7751623	2.1885098	1	2.6309802
559		1	1	1	1	2.2852201	1	1.8552026
560		1	1	5.0527405	1	5.4843896	1	1
561		1	1	2.5698093	1	1	0.939805	1.3921219
562		2.0732473	1.935588	0.7045126	2.529102	0.7241354	1.8743796	2.4806989
563		0.5231007	0.4823919	0.7621378	0.6303761	0.4461302	1	0.281738
564		1.4871921	1	2.3060058	2.0508162	1.9728163	2.2537352	3.8408521
565		0.6709663	0.4294373	0.7860729	0.7179208	0.4685954	1	0.3150085
566		3.0595896	2.3001491	1.6056821	3.3155307	1.5417797	1.7020875	3.6754464
567		1	3.3029493	4.8397475	1.7621637	5.0220872	1.4660989	1.2974071
568		1	0.4188264	1	0.7571332	0.5668378	0.7456115	0.3769262
569		1	0.4129753	1	1	0.2831784	1	1
570		0.3392918	0.3095057	0.2787957	0.6247091	0.3296065	0.6689514	0.217698
571		1	0.3992726	0.5681816	1	0.4846302	0.8226293	1
572		2.6508577	1	1.3438	2.1883889	1.7681562	1.6827765	2.5987827
573		3.5701324	2.003719	2.9956857	2.9775168	1.4836313	1.876539	5.4402814
574		0.2623913	0.7166926	1	0.5536253	0.5007612	1.201851	1.4029228
575		0.5753248	0.3619272	0.5828711	0.7585528	1	0.7612806	0.4113328
576		0.6804006	0.4574511	0.7532716	0.5408226	0.5138899	0.7990971	0.407672
577		1	1	0.7853568	0.3980817	0.602047	0.4875427	0.6169124
578		1.7636924	1	2.3963327	1.4356678	2.0500499	1.7676441	1.3606976
579		0.7353556	0.3642225	0.7686242	0.6784682	0.4708282	0.8184507	0.3188507
580		1	0.5052757	0.6780701	0.8566176	0.6818706	0.2766622	0.5310182
581		3.1566823	1	2.1609706	3.42812	3.1234679	2.0770669	3.181391
582		1.7794381	1	1.6243659	1.6669243	1.7023064	2.1858234	2.1422424
583		1.6142179	1	2.0665816	3.1474777	1.3221566	2.2992576	2.2615255
584		2.2215143	1	1.6544403	1.2865619	1.653405	1	1.7533872
585		1	1	1.1355525	1.7218802	2.1416352	1.4847601	2.8195498
586		1	1	1.8384122	1	1.9884458	1.4233551	1
587		0.4757684	1	0.4325575	0.553178	0.7227889	1	0.3925949
588		0.9034974	1	1	1	0.3076497	0.2734631	1

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
589		0.2242063	1	0.6206591	0.3616857	0.3151381	0.265628	0.542253
590		0.5519482	0.329141	0.458833	1	0.4867325	0.7674303	0.324263
591		1	0.5031686	0.6181211	0.6572182	0.4091691	1	1
592		0.610434	0.3828732	0.6731338	0.8374879	0.4068539	1	0.3583935
593		2.0350812	0.7142343	0.7237726	3.9427999	0.9035961	0.4240756	1
594		0.7759562	0.6702288	0.5052878	0.599986	1	0.6726078	0.5747266
595		1	2.4926205	1.7046593	1.2158795	1.6059052	1.472969	2.0927825
596		1	0.3228259	1	0.7264414	0.5162258	0.8527449	0.3247916
597		1	1	2.4495397	1	1	1	1
598		2.5145975	1.8172304	1.6905769	1	1.6227026	1	1
599		1	2.1703653	1	1	1.4617363	1	1
600		1	1	26.988957	1	2.2936223	2.3885134	6.5723064
601		0.3918772	0.5129141	0.5272743	0.7896268	0.6102842	0.5060783	0.6458909
602		2.3442896	1	2.7083947	1.8109243	2.0451103	1	1.902919
603		1.933929	1	1	2.2006533	1	1	2.4955392
604		0.3171246	1	2.5142954	2.4964707	1.2899564	0.7087105	1
605		0.6780516	0.4236615	0.6365973	0.7258293	1	0.7677854	0.3376675
606		1.498079	1	2.2382669	2.5216382	1.6588324	2.3945145	2.6059701
607		2.0419015	1	2.3879745	1.5019266	2.1525518	2.2167613	3.1528149
608		1.7353221	1	1	1.7909437	1.2589173	2.711604	1
609		1	1	0.688158	0.1523676	1	0.4226112	1
610		1	0.4791308	0.9330224	0.2818188	0.7785603	0.493361	0.484075
611		1	0.6530079	0.4745765	0.5677905	1.2778032	0.4687248	1
612		0.7207938	0.3807598	0.8163844	0.7099844	0.5212272	1	0.3267246
613		0.5726763	0.3600772	0.6584162	0.7213634	0.4693099	1	0.3044838
614		0.6350905	0.3878714	0.6857001	0.5972583	0.3888611	0.7390179	0.2827321
615		0.8170219	0.3643103	0.7872492	1	0.5452657	1	0.3551508
616		2.1044135	1	1.3672619	2.1589721	1.5628434	1.7949144	2.2514899
617		2.1602034	0.3588543	0.2889924	0.5524313	0.113068	0.3107689	0.6848735
618		2.1459375	0.359287	0.3256504	0.506252	0.1765889	0.2278695	0.6444787
619		0.7680421	0.7029397	1	0.4809522	0.5493946	0.5036683	1
620		1	1	0.7148158	0.8310174	0.6365143	1.2318117	0.8246143
621		1.5298821	0.7102144	1.5571333	1	1	1	1
622		1.9474157	2.1819044	1	1	1.8713382	1.7812457	2.0924906
623		1	1	1.3924316	2.06226	3.8278243	2.1081037	3.4752238
624		1	0.5149837	1.8613074	5.5637082	2.7677275	1	1
625		1	1	1.6526491	1.5453895	1.8102768	2.1106864	1
626		1	1	0.6750566	0.398816	0.7232904	0.471272	0.4064175
627		0.3621447	0.4648449	0.4820155	0.7461369	0.4519354	0.393411	0.6050148
628		0.4650232	0.3598075	0.629024	0.5808869	1	0.7446819	1
629		1	2.7530912	1.5786762	2.4168742	2.0220406	1.9306073	3.1814226
630		1	1	7.3160919	4.2949375	5.7823181	5.9493939	6.4315006
631		1	1	1.1885311	0.4209123	0.390771	0.2976852	1
632		1	1	1	0.4229307	0.4416921	0.6670586	1
633		2.9948192	1	1.3584055	2.5680197	1.1807357	1.8181185	2.0914334
634		1	2.4612015	1	1.6627722	1.7263036	1	1.8847176
635		0.4681742	0.4609755	0.5652189	0.8665631	0.5091221	0.4218689	0.4978345
636		2.11204	1	2.0311483	1	1.5175833	1	1
637		2.3045884	1.8443035	2.2784687	2.3272434	1.7144046	1.7337431	1.987614

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
638		0.4434503	1	0.6136441	0.568416	1	0.541426	0.6457568
639		1.8664711	1	1.8009691	1.4991439	2.1856519	1.804568	2.5683761
640		1.9375632	2.494621	1.8412478	1.8599952	3.8448072	1.5301548	2.9958195
641		0.5822094	0.7052726	0.1785994	0.6034573	0.4418501	0.4816631	0.4203743
642		0.6116178	0.3097565	0.7124312	0.7361295	0.4598704	0.8576514	0.320121
643		0.5977418	0.3785084	0.7027366	0.6653533	0.510187	1	0.3013516
644		1	1	1.9751369	1.3683669	2.989714	1	1.903921
645		1	2.2506689	1	1	2.1795787	1.5722354	2.2149689
646		0.5601656	0.4104354	1	0.7473481	0.4857569	1	0.3795455
647		0.8337804	0.3864666	0.7963523	0.7370643	0.4938293	1	0.3636716
648		1	1	1	1.4225693	1.4905632	1.2027384	2.7442513
649		3.4055036	6.3217978	1.8059642	1.5292152	1.9016215	2.1977816	2.8673845
650		1.9316994	1.9486949	1.5697074	1.2374611	1	1.8424987	1.3819837
651		1	2.0546793	5.2778541	1	2.5066502	1.8013748	2.8412304
652		1	1	1	1	2.2475102	1	3.0807906
653		1	1	0.7866972	0.5763387	0.6223344	1	1
654		0.2713249	0.6445292	0.2372919	0.1174458	0.5733025	0.5518043	1
655		2.4531592	1	1.5059828	1	2.5618514	1	1.251529
656		1	0.612922	0.1819487	0.2506942	0.4216864	0.6800675	1
657		1	0.4288416	0.6569853	0.4302984	0.5677446	0.6021291	1
658		1.5741243	1	1.6628313	1.8944042	1.5897742	1.6839152	1.6979942
659		0.572499	0.6896948	0.2726988	0.2193634	0.3578151	0.3582937	0.3772812
660		1	1	3.7368825	1	2.0470889	2.0277495	1
661		1	0.5865639	0.3575671	0.4834164	0.551222	1	1
662		1	0.4191211	0.7964886	1	1	1	1
663		0.2591271	0.5439067	0.0773793	0.549501	0.6479049	0.4382704	1
664		2.496101	1	3.787192	4.0189083	1	1.9397201	3.5473664
665		1	1	4.0395619	0.7596696	3.2462227	1	4.0167036
666		1.4270267	1	2.0012875	1.8215487	2.279676	1.9609494	2.3376997
667		1.1746615	1	6.049763	2.9596948	3.1482139	1.308665	1.4350572
668		1.2916777	1	2.1700359	1.2470985	1.8265177	1.3112509	2.1932803
669		1	1	2.4750639	1.7207983	1.476349	1	2.0711097
670		1	1	1.7552387	1	2.967132	2.7575945	1
671		0.5194467	2.9067559	0.4890126	1	1.3881369	1	2.4327695
672		1	4.5462525	2.2337564	3.3337445	2.3406687	1	3.0315357
673		1	1	1.8291308	1.6148061	1.835016	1.6382484	3.3159641
674		0.6474689	0.7087657	1	1.973768	0.955534	2.6933429	3.3081771
675		1	1	1.8717089	1	2.8266248	1	4.9209004
676		1	1	1.5073968	0.6957671	1.8469081	1.8633077	3.4005723
677		1	1	2.2007067	2.3135317	1.9038887	2.4811248	3.9892478
678		0.5362268	0.3545083	0.7483917	0.6955903	0.4248879	1	0.3051228
679		1	1	1	1.3405777	1	1	2.4052111
680		1	1	4.1754216	1.2713849	3.6227176	1	1
681		1	1	3.7839599	1	1.2993272	1	1
682		0.1046559	1	0.6141541	0.2327294	0.3258142	0.2361167	0.5279412
683		2.5346877	1	2.7094193	1.4516093	2.1814474	1	3.6363139
684		1	0.7344089	0.793333	0.2985073	0.7318231	0.3846675	1
685		0.5679747	1	0.7455573	1	0.8325661	0.5104178	0.5364304
686		0.490394	0.802634	0.6380412	0.5821121	0.5041894	0.6768459	1

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
687		1	0.7380776	0.3589926	1	0.2231063	1	1
688		0.6396975	0.504981	0.9499954	0.6696795	0.4820814	0.8032959	0.381297
689		0.5731232	0.422771	0.5860222	1.1754675	1	0.367389	1
690		1	1	1	1	1.3825928	1	1
691		1	1	1.738265	1	2.1299011	1	1
692		1	1.5842216	2.6867469	1	1.5169169	1.6604755	2.2652257
693		0.6590487	0.3719612	0.9090829	0.7671724	0.5484259	0.8993221	0.3895732
694		1	1	3.0898259	2.019943	2.5085944	1	2.285857
695		1	1	2.3261111	1	0.780216	1	1.7432806
696		1	1	0.6280481	0.2345092	0.1950282	0.1691971	0.4671518
697		1	1	2.8878176	2.5215191	2.948514	3.119506	1.5524467
698		1.9198714	1	1.8630205	1.4636442	3.4184079	1	2.3950256
699		0.5074221	0.3895458	0.7945718	0.7398981	0.4917064	1	0.3792852
700		1	1	1.9609524	1	3.0244835	2.0122183	1
701		0.4452252	0.3491464	0.7670728	0.6139928	0.448466	1	0.306827
702		1	1	2.8142387	1	2.5297268	1.7780639	6.3762654
703		0.5924644	0.325811	0.710252	0.6979221	0.554183	1	1
704		1	2.3717419	1.7321856	2.5957301	1.9746919	2.0697727	3.7301608
705		0.4877131	0.5357792	0.6306386	0.7981475	0.7565073	0.7585282	1
706		0.4420828	0.3624853	0.7509751	0.6707561	0.4253894	1	0.342204
707		0.4941817	0.4601728	0.7971773	0.5207686	0.4159567	0.8012053	0.312184
708		1	1	0.7160031	0.3444516	0.1706944	0.4906831	1
709		2.7293957	1.9803335	3.402591	2.5643819	2.2321555	2.3797575	4.8251205
710		1	1	3.0278324	1.5415309	2.8247905	2.5453453	4.2735736
711		1	1	2.2424175	1	1.5063163	1	1
712		1	1	2.2346678	1.4759415	3.737036	1	1
713		1	1	1	1	2.3488578	1	2.054439
714		1	1	1	1	4.8525951	1	1
715		0.475874	0.3800449	0.7566444	0.677371	0.4737686	1	0.3502514
716		1	0.4655536	0.7970818	1	1	1	1
717	0.6095876	0.6287095	0.2435698	1	0.6002288	0.4253001	0.8035265	0.3367602
718	2.0255469	1.6581844	3.2226434	1	1.5450318	1.1086546	1	2.5486915
719	4.1944684	5.5199161	22.946447	1	5.9290833	3.9178775	7.3370985	8.9076708
720	3.8682319	3.7168821	21.558144	1	4.5366566	1	1	8.3860807
721	3.080453	2.7407554	4.1187863	1.978999	2.4717435	1.2857244	2.5283203	2.4782294
722	2.2556349	2.8439399	2.994444	1	2.0397324	1.6878379	2.0096454	2.9051915
723	1.7072141	1.4357252	1	3.0054518	1	2.0994047	1	1.4465839
724	1.5378397	1.3285034	2.6075942	1.7057836	1.4835061	1.2492992	2.0322574	2.5979622
725	0.6164381	0.4789379	0.3576569	1	0.629362	0.220585	0.3155102	0.3517268
726	5.4551675	1	5.3784425	2.4621705	3.0413607	1	1.1790886	1
727	1.2202348	1.3560407	3.3309948	1.6783572	1	1.4333216	2.0695815	2.1149207
728	0.5213074	1	0.1724211	1	0.4723423	0.2936004	0.5429091	0.1957649
729	0.5101267	1	0.246636	1	0.5617227	0.4987551	0.5781643	0.2834422
730	0.4047713	1.1125747	0.4258258	1	0.6131363	0.8431392	0.3251842	0.6972365
731	0.4397263	2.1075636	1	1	1	1	0.4160925	1
732	1.3347391	1.2800236	3.1520225	3.3720314	1.14747	1.7760568	1.9672363	2.9485055
733	1.8062539	1	1	1.3934318	0.3766044	2.073793	0.2842231	1
734	2.039085	2.6749629	3.205676	1.7025087	2.6315447	1.7740989	1.6990209	3.3788285
735	0.6135905	1	1.3758203	0.4380891	0.8393241	1.3151697	1	1

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
736	1.6788313	2.7248582	2.6966219	1.3874106	1	1	0.8020015	1.6335124
737	9.274781	2.2961373	3.6023114	1.6823601	0.7503091	0.4330633	0.2385956	3.4668214
738	2.6942188	2.7653063	3.5950837	7.5114474	1.7701367	3.0792038	2.0639551	4.790067
739	0.5018568	1	1	1	0.3240862	0.6423607	0.2857607	0.7323216
740	1	2.0210216	3.8831356	2.9044826	1	2.7203582	1	2.7142471
741	1	2.1687236	1	3.9185213	2.8012617	1	1.8089771	2.413582
742	1.6710654	1.6944129	4.2854066	1.8092277	3.2412754	1.3592276	2.4303728	2.8880789
743	0.0765229	0.6745031	1	0.0909296	0.0739966	0.1655899	0.215823	0.2059267
744	1.2145019	1.1617247	3.5221926	2.7752348	1.3327324	1.6354397	1.8984906	2.0615081
745	1.9512947	1.6670739	2.5842766	2.9240933	2.6897305	1.5112422	2.068769	2.5033342
746	0.5177033	0.0409253	1	0.5019266	0.0633551	0.0580042	0.1375896	0.3517425
747	1.35266	1.3590915	4.0095032	2.837134	1.899728	2.251804	2.4291207	2.9940838
748	0.6013256	0.7572008	1	0.4673542	0.2089521	0.4209376	0.4545527	0.4483429
749	0.0414488	0.3205769	1	0.0224109	0.0811839	0.0748772	0.0792774	0.1018549
750	0.5026983	0.1989002	1	0.2474169	0.1724856	0.1866192	0.2156993	0.3054779
751	1.1238244	1.9001223	2.9253027	2.6177824	2.5799919	1.9726034	2.0871321	2.8973414
752	10.619795	0.3036449	1	1	0.1056362	0.3496809	0.2663514	1.3951831
753	2.1323521	3.2108198	3.673636	5.3481851	2.0369704	2.4389866	1.9095787	3.6684641
754	0.576146	0.5982662	0.2673492	1	0.6442782	0.4137308	1	0.2941326
755	0.5317681	0.0526672	1	0.4058101	0.0969415	0.0797961	0.1799179	0.4250765
756	10.756065	0.2227004	1	1.8305692	0.0555039	0.3330484	0.2052695	1
757	0.9037793	1.9665207	2.7048799	1	1.8156961	0.5100015	0.6059739	0.6858676
758	1	1.5803818	4.6940599	2.9353394	1.6970384	1.7911779	1.5614113	3.889886
759	1	1.3921781	2.8360078	2.0379055	1	1.6842655	1	2.0183203
760	2.2221377	3.0813097	3.3046656	2.8572451	2.8179649	1.8284138	1	2.4461187
761	1.8524886	1.8991411	2.8545969	1.7530246	2.4002541	2.0074554	1.5575023	3.7050797
762	0.934303	1.2379402	1	1.7522329	1.2892174	1.8896264	1.3603106	1.2258168
763	0.3895968	0.5114454	2.4204029	0.3850622	0.3070291	0.4811814	0.5572515	0.7334814
764	1.2173959	1	1	3.3344758	0.7650731	1	1	2.7582159
765	1	1	1	1.8511313	2.3250143	1	2.5032406	2.0285847
766	1.9369363	1.7920748	2.2366218	2.4393362	1.936444	1.5184832	1.9692687	2.4438544
767	1.3165839	1.7371021	3.699206	1.5561964	2.237629	1.2376819	1.9506592	3.5231059
768	2.3822895	2.6498437	2.8763308	2.0788083	2.5640741	1	2.222977	3.376864
769	2.1046984	1.9558725	4.6737696	1.6467159	1.8629475	2.5063754	2.0462295	2.8488202
770	0.7634938	0.5370472	0.2725795	1	0.5315872	1	0.5681397	1
771	1	1	1	10.716067	1.2886264	1	1.6560248	3.6277773
772	2.3857785	2.2500059	3.4417782	1.7045657	3.4963502	2.2531712	2.8076336	3.8750851
773	1	0.3409028	0.535804	0.7296313	1	0.7453159	0.3129313	0.6316028
774	1	0.1720706	1	0.4203033	1	0.6199161	0.5326126	0.759951
775	1	2.5090206	4.4366919	9.2824147	1.7398313	1	0.5978736	3.2178095
776	2.5468713	2.9446687	2.6588926	2.6652899	1.8463621	2.2413271	2.365556	3.5225536
777	0.4545111	0.7874136	0.2926176	1	0.5877952	0.5790528	1	0.3097304
778	2.4363377	9.4950408	6.0236903	6.3066853	1.2067441	4.5229473	1.5086893	10.545641
779	1.4188115	1.7745423	2.2002891	1.8951762	2.2380979	1.4378352	2.3949626	2.737774
780	0.152949	0.7271918	1	0.1256513	0.215523	0.2126638	0.2346429	0.263868
781	2.6318834	3.8389663	4.4638508	3.1049721	2.1555734	2.4272044	2.8552388	4.5371497
782	0.3972474	0.0477238	1	0.3206454	0.092571	0.0793839	0.1690681	0.4360194
783	1.6142343	2.9895401	3.1598045	4.4495796	1.6343515	3.3453101	1.8364179	3.8121654
784	1.6451466	1.9602744	2.3699131	1	1.8556327	1.5461629	1.8132977	3.5979152

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
785	0.1043845	0.3238743	1	0.2961085	0.0930783	0.0891738	0.1658781	0.3231664
786	1.5566382	1.6617284	3.5131164	2.3888935	2.625916	1.9815757	2.0762004	2.2945119
787	1.2250828	2.1682679	2.7477825	2.4369102	1	1.8963591	1	1.9288679
788	1.7996277	1.602209	1	3.4064499	1.7403416	2.2837912	3.4895015	2.5447941
789	0.065808	0.0342769	1	0.0483838	0.0282375	0.0358482	0.1734828	1
790	1.9891014	2.2745836	1.4672369	2.9550891	1.5527135	1.8383755	1.3422326	2.2253122
791	1.692688	1.4573486	2.9538241	1.7509478	1	2.1069962	1.8636954	1.8229341
792	1	0.266194	0.7647044	0.6193916	1	0.4706633	0.721897	0.7500653
793	0.3944615	0.5614104	0.1587597	0.1102818	0.3886233	0.1469925	0.2429009	0.3268429
794	2.7655894	1.6460724	4.3650477	1.8578164	2.3930477	1.227837	2.7605686	2.6591934
795	0.5770741	0.6106462	0.2500803	1	0.4185798	0.258027	0.5603151	0.2489251
796	0.7473291	0.4429882	0.3410965	1	1	1	1	1
797	1.7924543	1.6145032	2.4162996	1.4341235	3.5656843	1.6794908	2.3855241	2.624558
798	1.8184658	1	5.191014	2.6819489	2.5644435	2.5505363	3.2737428	3.003504
799	0.5705568	2.4390621	3.2001143	2.8039842	1	2.4319448	1	2.7372454
800	2.6726184	2.9758197	3.5056538	2.3346263	2.5713582	1.8573369	1.836945	1.96703
801	1	0.4543387	0.4813755	0.7302322	1	0.4532888	0.3167742	0.6248809
802	2.2796361	3.2159669	4.4804344	2.1686713	4.3250256	1.9860001	3.025531	4.8304775
803	0.7427389	0.469362	0.2849124	0.7580119	0.6317781	0.7424374	0.5018204	1
804	0.6833045	1	1.637534	1	0.7753536	0.6847629	1	0.5840995
805	1.7212364	3.240743	2.4426517	1.6779338	2.1671639	1.2510717	2.4730427	3.7718495
806	2.3796631	2.8748925	2.7124844	3.4512733	2.1303781	2.2688899	2.4847032	2.5316105
807	2.1787357	1.8920852	2.82197	1	2.0451222	1	2.2355694	2.9354718
808	1.7316273	2.074032	3.3022295	2.561256	1.5394867	2.0036493	2.2794833	2.6233825
809	1	2.4893059	3.3845669	1	1.9553037	1	2.0328108	2.3535657
810	1.8336435	1.8048248	3.2897571	2.0505165	2.8079635	1.6860655	2.4641317	3.094053
811	3.0266752	2.5664758	3.8206799	2.1117641	2.6104487	1.3410768	2.5371275	2.655438
812	2.2665302	2.4331697	3.2727607	4.4277855	1.7906134	1.7952175	2.495153	3.7709501
813	1	2.097977	2.2948126	5.1146335	1.7274779	2.1424596	1.5809475	3.082976
814	2.6492463	3.1779852	3.2932122	1	2.3984754	1.3695671	1.8779945	3.0042693
815	2.2933816	2.5035088	3.5813283	1.6101804	2.7789589	1	2.3477023	3.7529381
816	0.7727255	0.5061213	0.2978628	1	0.6310987	0.4427295	0.9308601	0.3549142
817	0.6628353	0.5875054	0.2978034	1	0.6185836	0.4420975	0.8719508	0.3279001
818	1	0.6567508	0.3227702	1	0.621843	0.453701	1	0.3121682
819	0.6753355	0.5374975	0.4313883	1	0.7344944	0.5205127	0.6297607	0.5004301
820	0.5038894	0.5952101	0.3229847	1	1	0.5661507	1	0.4327846
821	1.6532425	1.6217736	3.0975324	3.437005	2.8054558	1.3090003	1.4884605	3.0477805
822	2.0915947	1.5109863	4.427608	1	2.7380667	1.5606519	1	3.1786218
823	2.4128479	2.4132888	2.3899634	2.3372635	1.579207	2.2337288	1.8658302	3.1043253
824	0.2441954	2.6651297	1	0.6053421	0.4010021	1	0.7007664	1.465298
825	0.4167359	0.5227745	1	0.5326829	0.6543474	0.5348712	0.4453601	0.4528558
826	3.3367705	2.4448312	2.4599945	4.122002	1.5917512	2.0897728	2.1495818	1.9994642
827	0.6004307	0.672337	0.2908385	1	0.6761189	0.5527197	1	0.3201604
828	0.4160051	0.6530566	1	1	0.5254157	0.408063	0.5162683	0.4471279
829	1.9945697	2.226404	1.8676149	1.856668	1.7093143	1.5135437	1	2.0353224
830	1	0.081116	0.0543335	0.0985817	0.0428873	0.0654514	0.1078604	0.0527736
831	0.0745598	0.5786212	1	1	0.3811632	0.1177465	0.2507606	0.3003891
832	1.4926428	3.9145974	2.8616308	3.3557466	1.874489	1.9484344	1	3.5045653
833	1	0.0701301	0.0395298	0.0981231	0.0306118	0.0478502	0.0700306	0.0424145

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
834	0.6185934	0.6197824	0.2941866	1	0.7228671	0.4865195	0.8332184	0.3252887
835	0.299763	1	0.5447541	0.5626709	0.1753226	0.5507961	1	1
836	0.7750493	0.5483066	0.2948879	1	0.6791628	0.458359	1	0.3455097
837	1	0.6537644	0.3275119	1	0.7159957	0.4619932	1	0.3424486
838	1.4538356	2.8513925	2.9094243	3.6604907	2.0421113	3.5319431	2.6542419	3.210267
839	1	2.8075827	3.2453239	2.5432767	1.5901161	1.7474223	1	2.7533481
840	0.9605168	1.4328245	1.8969914	1.7766395	1	2.1406734	1	2.2062982
841	2.3579565	2.0130703	2.2103708	2.5779203	1.2372604	1.2203349	1.3223998	2.2668273
842	1.7148775	2.2746157	1.8272381	2.6301311	1.4683729	1.9312935	1.5819805	2.5519263
843	0.3648474	0.8886732	0.639716	0.5035389	0.6574853	0.4821638	0.7546179	0.4302126
844	2.0234582	3.675871	2.3923339	4.9208277	2.7978862	1.8679993	3.5524614	3.2702517
845	2.894463	3.2056136	3.94891	2.3557127	2.3729506	1.7788942	2.3673689	2.4426236
846	0.2212253	0.2510742	1	0.2869051	0.3993528	0.2783419	0.2280098	0.2442229
847	1.4727826	1.7621677	3.8547323	1.7021041	1.3761242	1.4069198	1	1.7466731
848	1	3.9746261	0.2788555	2.0957932	1.2556608	1	0.4513807	1
849	0.6682373	0.6695168	0.2916365	1	0.6495363	0.4649955	1	0.3278765
850	1.6866038	1.8701884	4.0688146	1.7751831	1.9281937	1.7163695	2.3834931	2.5684314
851	0.266558	0.2913614	0.1775767	0.276907	0.2440895	0.2086723	0.4191392	0.2456746
852	0.6935523	1.363606	2.8217161	2.7030482	1.2538477	1	1	3.1169802
853	1.7036769	1.818438	2.6428691	2.5172863	2.420215	2.2361196	2.5261102	2.5347585
854	1.42537	1.9807665	3.0914246	3.775215	1.7526215	2.5386236	1.925131	3.784749
855	0.7295529	1	1	0.6214918	0.4832196	0.5229035	0.6797734	0.6078709
856	1.6404267	1.2737344	3.0908152	2.201227	1.6156366	1.900433	2.0364151	2.0625732
857	0.5612511	0.2774105	0.2240745	0.650941	0.5228334	0.2565431	0.3919822	0.2853041
858	2.1407056	0.4214023	1	0.6716819	0.1659043	0.0913723	0.1024399	0.394378
859	0.65051	0.588063	0.6924982	0.6696915	0.6140069	0.5498618	1	0.3611627
860	0.1972375	1	0.5616191	0.4390352	0.1405961	0.5302064	1	1
861	1.6392743	2.6035139	2.5474303	2.8829892	2.320569	2.0036425	1.8221864	2.3078454
862	1.6392743	2.6035139	2.5474303	2.8829892	2.320569	2.0036425	1.8221864	2.3078454
863	0.6915081	0.576053	0.2899296	1	0.6545078	0.4342175	1	0.3203577
864	0.4359209	1.2664372	1	0.6012883	0.3581683	0.8906322	0.4837882	0.6251412
865	2.4383331	0.7602462	1	0.55647	0.320989	0.3369438	0.2971658	0.2723652
866	2.3886827	1.9821927	3.4491607	3.409069	3.8820378	1.3334991	2.1904732	3.4378823
867	2.0879528	2.0127701	3.0645348	2.8675403	3.0554556	1.8745877	2.1475207	3.8916454
868	0.6483557	0.512389	0.3184805	1	0.7192987	0.479725	1	0.3142432
869	1.8802443	1.9022294	3.3935411	5.2360064	1.4161563	1.9358209	2.0319809	2.9373653
870	2.6862555	1.4563192	3.6197772	1.5657217	2.1498462	1.7430117	2.5733483	3.585347
871	2.1114927	3.0746827	3.8188187	2.0354108	3.5031161	1.8423326	2.9051455	3.8513768
872	2.0540262	1.6373062	4.1844692	1.7604156	2.2408213	1.8173736	2.5318215	2.9165052
873	2.1309311	2.0782516	2.8696184	2.9306277	2.9548638	1.8494913	2.1148719	3.6426808
874	2.0722671	1.8696897	3.5454907	2.1793307	2.1970319	1.6307681	2.2587926	2.7375609
875	1.3914862	1.257108	2.0153819	1.6671782	1.6774749	1.5821484	1.6639606	2.1409801
876	2.2031983	1.9322545	2.8536877	2.1545701	2.286196	1.3610688	2.0989661	1.8854672
877	0.4168184	0.057793	0.8361016	0.0862004	0.4874539	0.5353796	0.0984446	0.0753695
878	1	0.1825901	1	0.5389106	1	0.3930038	0.5905041	0.7529608
879	1.6299899	2.3037722	2.7116634	2.2253215	1	1.8714344	1.8946361	2.6219703
880	0.5680978	0.6679459	0.360136	0.8125161	0.653099	0.4962888	1	0.4584811
881	0.2363831	0.6768622	0.1088357	1	0.277555	0.1375324	0.2365987	0.29889
882	0.4040364	0.319258	0.3534182	0.3916115	0.310291	0.3197479	0.5735338	0.4159403

Table 4

SEQ ID	Patient ID							
	10	15	52	121	125	128	130	133
883	0.1316716	0.6949631	0.0486907	1	0.1740798	0.0459953	0.1488488	0.2314181
884	3.0282676	2.144977	6.2725185	2.2905757	3.1945477	2.1928723	2.8359864	5.1309534
885	1.7907441	1	2.8477268	2.5269187	1.8609351	1.9201708	1.6943294	3.4858906
886	2.4028425	2.0837312	3.9538894	3.0807273	2.7320434	2.0416547	3.0386667	5.4560764
887	1.9350263	2.030635	1.5138839	4.0824229	1.9521944	1.5881048	1	2.678452
888	2.1561555	1.7813677	2.6710098	3.8009512	3.444038	1.2120702	2.4091965	2.9476534
889	0.5486366	0.5222491	1	0.4201858	0.5214601	0.7048511	0.640962	1
890	2.1755515	2.3254278	3.1824135	4.0268089	1.6034365	1.7706088	2.7569156	4.1807049
891	0.6186422	0.5681607	0.2816634	1	0.6948075	0.5462687	1	0.3293439
892	0.6421543	0.5422747	0.289508	1	0.7356023	0.4866294	0.8845726	0.3464565
893	1.5007115	1.6074044	1.526858	1	1.2964315	1.3073172	2.6342617	2.1810514
894	2.2204232	1	2.6324409	1.4510418	2.4379481	2.5122562	2.4415669	2.4581661
895	1	0.6742565	3.2669639	9.3758838	1.2178899	1.2218738	1.268043	4.2649108
896	3.3206006	2.3683852	2.3974555	1.6416062	2.4095135	1.416531	2.7958048	2.3749071
897	1.5228669	1.7856302	2.072734	1.7603823	1.739718	1.5522498	2.0016975	3.9205371
898	1.5199714	1.5560615	3.2173528	2.3797961	1.6556581	1.7136695	1.9321896	2.2260459
899	2.0955035	2.0713619	2.8397319	3.0271433	2.4036031	1.6375489	1.8798072	2.5086281
900	1.6063656	1.8601728	2.4536422	1.7274294	1.9408073	1.6365183	1.8371711	3.8818465
901	2.1165135	1.5101124	3.5221926	1	2.3380948	2.0059989	2.1227394	3.7751158
902	1.7297886	2.2027485	2.8165203	2.328205	1.9372167	1.7117253	1.7911463	4.2818655
903	0.6126849	0.5585794	0.2744259	1	0.6695661	0.5535029	1	0.2994739
904	1.6331657	1.9807451	3.3701978	2.0281399	2.3131309	2.095949	2.1631286	2.9711566
905	1	0.4092743	0.4813423	0.6589754	1	0.3782468	0.3474223	0.5526673
906	2.7153171	3.3162722	3.0211311	2.4075476	2.6686282	1	2.8687707	3.4021818
907	0.0527969	0.2759628	0.3741559	0.2970418	0.3657569	0.7887212	0.506064	1
908	0.5510281	1	1	1	0.6199085	0.5185479	0.8727068	0.491081
909	0.4710536	0.5945238	0.3983095	1	0.5350304	0.3885176	0.5085316	0.4416368
910	0.1602014	0.4445001	0.2088396	0.5725136	0.2440628	0.2323535	0.3743605	0.3555374
911	0.1786916	0.7464025	0.1509195	1	0.3373579	0.3116618	0.3887774	0.5716497
912	0.8934726	0.4108613	0.4915708	0.7495605	1	0.6175322	0.4950158	0.6433031
913	0.5949486	0.7054236	0.2689106	1	0.7893934	0.6432538	1	0.4766272
914	0.8019742	0.6380065	0.3252106	1	0.7117492	0.488608	1	0.3687052
915	0.4722129	0.0447696	1	0.419153	0.0851143	0.0574752	0.1572536	0.4217865
916	1	0.4481514	0.3048446	1	1	1	0.588518	1
917	1.8388375	2.0749488	1.5819747	2.5804923	1.8209586	1.5245908	1	2.5832007
918	0.7254824	0.6180184	0.2941949	1	0.6444687	0.4409158	1	0.3255175
919	2.1865708	3.1936733	2.8738264	3.8020377	2.4141974	2.4337928	2.6279253	4.3110255
920	1.7565344	3.21883	5.6702206	5.6034123	2.807742	1.7384431	2.4552847	6.732931
921	0.5982921	0.6773555	0.5505745	1	0.4991868	0.4813669	0.7400864	0.3557899
922	1.560408	1.6711917	3.5192278	2.5314529	2.3667458	1.9225616	2.0343341	2.5450623
923	1.504084	2.4353572	1.9840749	3.6747929	1.9692554	1.8721351	2.1119801	2.7729222
924	0.4509667	0.0427697	1	0.4153425	0.0600127	0.0235095	0.1219921	0.4113407
925	1.4328211	2.0808895	2.5254768	1.7518373	1.9529083	1.6518387	2.1009844	2.6793435
926	0.8159115	0.6498343	0.2960993	1	0.665739	0.4977658	1	0.3220776
927	1.2330082	0.8009839	2.8871894	2.7124185	0.6890476	1.4006062	1.3603106	2.6395089
928	0.5674332	0.4797207	0.6485278	1	0.6143531	0.3081581	0.3379659	0.2272287
929	2.1670332	0.7177929	1	0.3931725	0.3657895	0.3363461	0.1859726	0.3337306
930	0.5007507	1	1	0.224756	0.140628	0.1550855	0.2868679	0.336342
931	2.5788983	1.5820761	3.6691224	1.8772561	2.4041441	2.2352402	2.6268465	5.4215909

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
932	4.9421257	6.3649564	5.6892534	14.874106	2.518665	2.1476671	4.3811606	4.7868796
933	1.9758098	1.4764306	1.8662254	2.7516964	2.3212246	2.1422878	2.1388557	2.9926794
934	1.3309122	2.1213483	3.2930393	1.9230844	1.2574792	1.3702816	1.946844	3.0002377
935	1	1.7298371	6.3901202	1	2.4332272	1.5992412	1	2.3739209
936	1	0.6956172	1.6311876	0.3229072	0.7294978	0.6301251	0.4638396	0.818918
937	0.3046809	0.5928831	0.6404346	0.437486	0.3237395	0.7178218	0.5706694	0.8015135
938	2.423277	3.5287641	3.7242497	2.2302252	2.3159397	1.6295383	2.291553	3.9770189
939	2.5007657	1.4564103	4.0730428	1	1.488966	1	2.2221499	1.7040219
940	0.5798724	0.5678443	0.2926395	1	0.6251369	0.5102969	1	0.3126653
941	1.647501	3.7686164	0.5077535	0.2863211	1.711204	1	2.7526801	2.0705653
942	0.185334	0.6581984	1	0.0688048	0.1720956	0.053099	0.1268612	0.209122
943	0.39676	0.6503812	0.3358934	0.2502921	0.4010488	0.3197136	0.3576158	0.4849981
944	2.0183023	1.9201855	1.8484582	2.3090366	2.2666916	1.4833358	2.0851889	2.9964349
945	2.3584074	2.570942	6.9112453	2.1051753	3.7045717	1.896043	3.1343493	3.6862946
946	0.5672953	0.0530372	1	0.4173681	0.0879548	0.0489906	0.1480838	0.4487926
947	2.5213602	2.8571348	2.8256574	3.1849462	2.381416	1.8792319	1.9068148	3.772386
948	2.512994	1	1	5.1174445	3.3167662	3.7653889	3.9129056	2.1368302
949	1.6700634	1.6023806	4.1493079	3.3248314	1.6390164	2.4159924	2.2293941	3.1911031
950	1.9744543	2.7303646	2.476118	2.6258292	1.3700519	2.4294647	1.5978093	2.7671943
951	0.5841764	0.4949745	0.2809404	1	0.6667156	0.427739	1	0.3202551
952	1.2511983	1.9562585	2.184044	3.6046573	1	1	1.8713647	2.4847541
953	1.8421331	1.7351826	1.8652263	3.0410837	2.098236	1.7901749	2.2292277	2.4748921
954	0.5680604	0.3570413	0.2281215	1	1	0.5451901	1.2894892	0.7696473
955	0.2567999	0.6279589	1	0.3636204	0.3357418	0.4936438	0.5080586	0.5308762
956	1.652072	1	3.9107408	2.187163	1.5657564	1.1556323	1.6219059	2.4794444
957	1	2.9602764	3.7640382	1.5609184	3.1052014	1.6540165	1.9033308	3.9383913
958	1.9254033	1.8681509	3.3004916	1.7423634	2.3824253	1.8147149	2.7232262	3.2629538
959	1.8827864	1.6759957	2.3509012	2.1976422	2.2038318	1.7128588	2.424847	2.6048577
960	2.0606935	1.4794439	1.2776595	3.1668561	2.4046854	1.3341037	2.0489439	1.9804975
961	1.8687677	1.5666561	4.5434065	2.1128662	3.2290264	1.820843	3.4865138	3.2166813
962	1.7961459	1.5158064	3.0490393	2.4749323	2.0238471	1.6704291	1.9395521	2.5101902
963	1.9227449	1.5860222	3.1559881	2.6869795	2.1844055	1.5083705	2.3266667	3.1792529
964	2.0309787	0.5222223	19.554924	0.7039905	1.9036896	1.2518824	2.8433673	1
965	1.7929754	1.7296923	2.0058417	1	2.5351049	1.661285	1.9623669	2.9760797
966	2.0551018	2.2707017	2.4341189	2.1597676	2.452841	1.1386014	2.7709859	1.9413177
967	1	1	1	0.4065383	1	1	1	1
968	1.9572221	1.7161864	3.7253558	1	3.0201189	1.39702	1	3.1685546
969	0.611314	0.5269459	0.2949004	1	0.736683	0.5441664	1	0.3157107
970	2.6126895	3.0284387	3.164109	2.0293333	1.5897611	2.7322984	1.5628277	4.274039
971	1.5464336	2.0135528	1	1.9698718	1.1304908	1	1.3118846	3.2219989
972	0.3008986	0.2774963	0.3972473	0.3317239	0.1975385	0.3640188	0.3398184	0.5598941
973	1	0.3922618	0.5350999	0.7751832	1	0.7033878	0.4003216	0.6665065
974	0.6614997	0.6986251	0.3115908	1	0.690415	1	1	0.3436162
975	1	0.395586	0.6248831	1	1	1	0.3890036	0.6233582
976	1	0.5175255	0.627685	1	0.8676613	0.4721747	0.6043836	0.6279973
977	2.4002373	3.0260474	2.6654471	1.9285013	3.3357227	1.4460999	2.2704134	3.8629193
978	2.3426019	2.281484	3.4819077	1.4993382	1.9286812	1.9277691	2.1667386	3.9123714
979	1.906526	1	1.8613511	2.823712	1.7003074	1	1.3480697	2.8843866
980	1.3155207	0.7446761	2.0362569	4.5663235	1.8140308	1.4895121	2.2092174	4.5408184

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
981	1	0.4872108	1.8693406	0.7156674	0.498425	0.726911	0.3620425	0.7811662
982	1	2.6978677	1.9196963	2.1913323	1.0971054	1	1.3915835	2.3006658
983	1.6710331	1.3953361	2.7456171	2.5728627	1.8445445	1	1	2.7785475
984	3.502878	2.6661269	4.0105289	2.1632801	1.7840035	1.8109844	3.8743231	2.134487
985	0.4807719	0.0460135	1	0.4612057	0.1164957	1	0.1606215	0.493511
986	1.7934968	2.9359185	2.2040783	2.2542526	2.2937571	1	2.4449653	3.4282254
987	0.3168646	0.2285607	0.4852154	0.2073859	0.2933221	1	0.2074119	0.328697
988	0.5915895	0.6595281	0.30202	1	0.6343974	0.5362521	1	0.3493125
989	0.7999457	0.4533147	0.2035669	1	0.5394186	0.7672384	0.5706513	1
990	1.4580832	1.8137573	2.4381883	2.3342752	1.4360732	1	2.1231419	1.7111225
991	1	1.3521482	6.2882423	0.6035372	1.2870115	1	1.6339159	0.5842178
992	0.6994915	0.6418723	0.3249461	1	0.7758323	0.4389784	1	0.3236082
993	0.268848	0.7003891	1	0.2068799	0.3014536	1	1	1
994	1.9293186	2.1594105	1	1	2.0769778	1	3.1569924	1
995	0.5745702	0.5163835	0.2896337	0.8305257	0.7796551	1.3802432	0.7854078	0.494363
996	2.3438738	2.3281515	3.2078077	1.3888178	2.7028674	1	2.6490618	3.1277417
997	2.2120039	2.471693	1	1	2.9150247	1	1	1
998	1.9350263	1.2769889	3.91954	2.7503146	0.7497982	1.5865934	1.8048588	4.2087525
999	0.5072733	0.4880526	1	1	0.4275527	0.5201142	0.6186919	0.861585
1000	1	0.4688848	0.3285311	1	1	1	1	1
1001	0.103764	1	0.0651199	1	0.2531524	0.223862	0.2033665	0.4923512
1002	0.4193572	0.6722781	0.2800021	1	0.4661678	0.3547717	0.6076468	0.5786162
1003	2.3645434	2.562846	3.0742997	1.7331206	3.0495234	2.0186399	1.9713054	3.5339856
1004	1.2995806	1.4497887	3.0619911	2.1947931	1	1.4221577	2.0103219	2.2485628
1005	0.7553779	0.6790444	0.3300926	1	0.6792406	0.499765	1	0.3286812
1006	1	1	0.3078525	0.7138348	1.6629275	1	1	1.259395
1007	0.3519126	0.0614978	0.3528634	0.186879	0.0926434	0.1255922	0.4313343	0.2848702
1008	0.7072093	0.6217876	0.2900637	1	0.6854392	0.4488301	1	0.3316635
1009	0.6387859	0.6168496	0.2931703	1	0.6693269	0.4772311	1	0.3498096
1010	1.9244163	2.2722352	1.8025535	4.121637	1.4600627	1.9163579	1.8563578	2.7026415
1011	0.6954629	0.6797522	0.3185388	1	0.6944687	0.4823699	0.8656904	0.3873799
1012	2.1102025	2.1014138	3.6095683	2.0163256	1.5013144	1.4852595	1.806533	2.4757284
1013	1.6281764	2.4474477	2.5226323	3.0055488	1.3879086	3.0845969	2.4370504	3.0426759
1014	0.5437337	0.5748627	0.3452047	0.7208366	0.67187	0.4994696	1	0.4353172
1015	2.0171235	1.7626074	3.2006043	4.4053701	3.2879727	1.493428	1.6740974	3.2317899
1016	0.5241812	1	0.2619576	1	0.7384912	0.4943789	1	0.3659438
1017	2.4730447	2.2466227	2.9171383	1	2.5333011	2.0058271	1	2.7836442
1018	1.0948104	0.1600016	0.7582599	0.432831	1	0.4267497	0.5920339	0.7670122
1019	1.7602589	2.8350288	0.5821009	4.2985967	1.5283618	2.851419	0.8833079	2.0370187
1020	2.6729493	6.892165	1.4122242	1.5323531	2.0730674	3.3082597	3.0132176	4.0493035
1021	2.2629066	2.7174645	2.5647244	2.3824754	2.5893742	2.3684582	2.6464794	4.1581249
1022	1	1	3.0823081	3.3501926	1.6739782	1.9592754	1.6919614	1
1023	0.7220544	0.6122279	0.2856599	1	0.7239303	0.4820608	0.8646794	0.4005871
1024	0.5930483	0.4448272	0.4788065	0.7233734	0.5189417	0.5838825	0.6164908	0.7164714
1025	1	3.1271516	3.0868596	3.6322178	1	1.5127536	1.6556575	3.0327192
1026	2.1685027	3.5833883	2.1725435	2.0648402	2.1764821	1	2.2938413	2.9858155
1027	3.3994384	2.3457377	4.9704874	2.344207	1.6692429	1.7387316	2.6352691	2.8398498
1028	2.0794041	1.7228831	1.9212254	3.1291807	2.8076682	2.2825065	2.9844084	2.2848551
1029	1.5717993	2.3269559	2.3517828	3.9981065	1	1.8283245	1.7812811	2.5256697

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
1030	0.8559427	0.4422483	0.4130179	1	0.458051	0.3693225	0.315297	0.400169
1031	2.6632202	3.1530697	4.056445	3.3744755	3.2497568	2.204682	2.4207191	3.1301401
1032	0.5604896	0.853324	0.327218	0.2092365	0.4675801	0.4816142	0.5996143	0.4873571
1033	2.0300714	2.0291016	2.3594808	3.7666627	3.5136031	1.2462626	2.3151821	2.5432083
1034	2.2220233	2.059443	3.6256368	2.4574268	1.919013	2.1217256	2.1463373	3.7762835
1035	1.5456308	1.483567	2.334536	2.4216989	1.9338495	1.7417201	1.9822537	2.0539183
1036	0.5095396	0.7229883	0.3625637	2.4660179	1	0.3791949	0.4990556	1.1673311
1037	1	0.449465	0.5530898	0.7379233	1	0.8892444	0.4390415	1
1038	1.2203383	1.7766119	1	2.562948	1.7282606	2.9112369	1.6357954	2.0078114
1039	2.1059304	3.8481293	1	4.4290492	2.9642948	3.2641193	2.3282993	6.207049
1040	2.1894542	1.4399126	4.0948508	3.4580666	2.1514918	3.8281884	1.6582318	3.6064202
1041	1.8334877	1	1	1	2.2544433	1	1	1
1042	1.9332065	1.7176716	3.3776399	2.7942233	3.0017005	1.4288216	1.6596757	3.3732111
1043	2.9099743	2.6356568	4.2974467	1.8301734	3.6748729	2.4326799	2.7088163	4.7312183
1044	1.8388375	1.3929501	2.4229278	2.1894773	1.939292	2.0100729	1.7607652	3.1986772
1045	3.061773	3.1749237	14.443261	1	3.2733613	3.3738897	3.1191801	5.9678597
1046	0.340201	0.1952597	0.3301621	0.3161018	0.1352791	0.1967595	0.6270322	0.2954186
1047	0.5048765	0.0425391	1	0.4675161	0.0958619	0.0572966	0.1637054	0.4365559
1048	0.711569	0.0379818	0.3716701	0.48003	0.1109732	0.0991973	0.0840915	0.1281115
1049	1	2.3161254	1.8001217	2.7490154	1.1867917	1.2758246	1.2167378	2.254125
1050	1	1.4422449	5.5863745	1	2.8221346	1.7609426	1	3.4033021
1051	0.1613758	0.1852763	0.5705662	0.3678408	0.0855494	0.2621559	0.3828771	0.4186938
1052	0.6483557	0.5847817	0.3040775	1	0.754667	0.5402368	0.8346079	0.4037272
1053	1.082973	0.5140029	0.7156608	1	1	0.6122147	0.5053332	0.7225937
1054	0.7306086	0.3283513	0.6051591	0.6914849	0.8488969	0.5171051	0.5878268	0.6592401
1055	0.859804	0.6594906	0.5397886	1	0.7908605	0.6588008	0.6552418	0.7247555
1056	1	0.3912699	0.5664689	0.7691512	1	1	0.4512443	1
1057	1	0.4850608	0.5754139	1	0.8209128	0.6258313	0.4734538	0.7140808
1058	1	0.4174722	0.5741233	1	1	1	0.5557615	1
1059	2.5020702	2.101328	5.6691954	1.8307852	2.9540465	2.7744808	3.208207	4.1390478
1060	0.4027153	0.4994568	0.5646532	0.4072727	0.6203297	0.3754301	0.615432	0.374512
1061	1	0.8088547	2.6784249	2.3505984	0.6615864	1.4045221	1.3991468	2.7678728
1062	1.9886891	3.1132543	1.9879744	5.9530658	2.0138872	1.1671054	1.4466617	2.7498687
1063	1.6105607	2.5888981	2.4774875	2.0218862	1.3144122	1.3458446	1.6176885	2.698247
1064	2.939498	2.8959476	3.3807353	3.2947136	2.0995971	2.4712829	2.4147162	4.6541763
1065	2.4458622	3.169042	1.7747521	3.7640741	1.8544084	5.1656515	3.4603875	5.2602562
1066	0.6711723	0.6574746	0.2973403	1	0.6834129	0.4850562	1	0.3494782
1067	4.0523297	5.0652932	19.433728	1	4.7798839	4.7849109	5.1509874	9.9478371
1068	2.4531592	3.5318363	2.7337681	4.0768817	3.673988	2.4593564	3.6017357	5.4889682
1069	0.6815461	0.6659996	0.3072402	1	0.5174383	0.5336827	0.8603447	0.3797664
1070	1.6162287	2.5071655	2.8739581	2.5300085	1.1441879	2.1197745	1.4536806	2.6386962
1071	0.936299	0.4581884	0.4552014	0.5985748	0.7708211	0.5007062	0.4092141	0.6663802
1072	1.7989902	1.882874	4.3971841	2.6876776	2.5773771	2.4306188	2.908069	2.505275
1073	2.4346889	2.7431949	2.5865149	3.0988752	3.2574877	2.337268	1.761804	6.7570022
1074	0.6685478	0.5801707	1	0.6573378	0.7712441	1	0.3810807	1
1075	0.0423755	0.6352239	1	1	0.0515781	0.0187828	0.0971154	0.1963014
1076	1.9371971	1000	1	1	2.4876326	1	1	3.2143223
1077	3.0504147	3.554768	3.9721713	3.508361	1.9835551	1.8823647	2.7528492	4.0275834
1078	2.2840989	2.5771722	2.0004032	2.5659851	2.4547577	2.41591	2.4495112	3.8386035

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
1079	1	1	4.5688941	1	3.0448289	1.7902161	1	3.9010261
1080	2.4558107	2.5367563	6.4413147	1.7862509	3.7477282	1.7885467	3.1298597	4.0244828
1081	0.5201329	0.1185562	0.904618	0.2212746	1	0.8106093	0.1873862	0.1891613
1082	2.1437352	2.431529	3.1099747	1.989528	2.4919857	1.5831514	1.6436587	2.8949981
1083	2.1228624	1.6078441	2.5578204	1.7466778	3.559505	1.9581075	2.0230331	2.9055702
1084	1	2.4995144	9.5279003	2.8531301	2.1949098	3.6306526	2.3510293	5.0282306
1085	0.376508	1	0.8175822	0.0981597	0.50418	0.5928823	0.1032478	0.0892157
1086	1.2970816	2.2365804	1.9446986	2.6919513	1.8039507	2.3948737	1	2.2811864
1087	0.8618295	2.1793128	0.356164	0.3779874	0.5810575	0.1451376	0.2433284	0.7417734
1088	0.6881406	0.3107973	0.2903323	0.6900705	0.5402672	0.3013979	0.4220995	0.3287364
1089	0.2865728	0.6662141	0.198957	1	0.395565	0.4025807	0.3915488	0.544612
1090	1	2.3098148	2.1113234	2.6704113	2.1635641	2.0534919	1.787287	2.2982911
1091	0.5939418	0.6500756	0.6422712	1	0.4579195	0.496433	0.2849445	0.5853855
1092	2.6775084	1	2.0179111	7.3833877	2.34415	1.6313933	1.5784406	3.3752467
1093	0.7255556	2.3856282	2.8905162	2.6479326	1	2.365985	1	2.8124018
1094	3.3587076	3.0272967	3.7771873	2.829719	2.6063081	1.9335537	1.8836808	2.1016425
1095	1	0.577136	0.3383617	1	0.7343682	0.5000879	0.9034943	0.3714666
1096	2.557736	2.5534953	1.5660933	2.0698433	1.5565604	2.2407912	2.0165212	3.2873879
1097	0.5809063	0.5232731	0.2766278	1	0.6797247	0.4932316	0.8769183	0.3830485
1098	2.3690851	2.9002798	3.286826	2.9710243	1.394359	3.3047834	1	3.1544796
1099	3.9525241	2.2226669	3.0043422	2.3708281	2.9186093	2.8786108	2.944292	4.0095241
1100	2.209174	1.5899738	3.3767306	1	2.6518648	1.462121	2.5014931	3.2792616
1101	1.8861592	1	2.3307184	4.4457554	2.1721443	2.7796265	2.0229874	3.3158458
1102	2.3129805	1.5469521	1	1.8541539	2.3744805	1.9909946	1.7239675	1
1103	1	2.0310103	3.2092851	1	2.4049561	0.6971841	1.9956777	2.4690775
1104	1.3964149	1.7495143	2.7717069	2.3500644	2.2236531	1.5709364	1.7309292	2.4231599
1105	0.6500104	0.6678118	0.5404818	1	0.5518975	0.5295744	0.4791155	0.606072
1106	2.0850283	1.7885201	1.8137621	1.9293405	2.5633357	1.6486028	1.9648201	2.7913208
1107	2.6785052	2.708146	1	2.2813716	1.247317	1	1	3.0782107
1108	1	1.8584303	1.8401596	2.7697038	1.6660142	2.5475822	1.5918188	3.555469
1109	0.4765684	0.5198685	0.3557175	0.1771471	0.3871372	0.465813	1	0.3694074
1110	2.327697	2.6888334	3.5402868	1.9591782	2.2504532	1.818782	2.154493	3.53782
1111	1.9783451	1.880354	2.1530019	2.3826583	2.6588625	1.9803047	3.3390225	2.8541931
1112	1	1.8694645	1.9361131	1	1.5197932	2.2561459	2.2498863	2.8128673
1113	3.489993	2.5948066	4.357768	1.9176584	3.2538159	2.6792613	3.133034	5.7647653
1114	0.6366615	0.6783742	0.7328897	1	0.5951516	0.5839099	0.4928643	0.5920285
1115	1	1	0.326426	1	1.8434939	1	1	1.2245308
1116	2.7855763	2.4676342	4.5909693	1	2.7545909	2.3104815	3.2313509	4.3523356
1117	0.7393172	0.5842777	0.2908898	1	0.6624234	0.4561949	1	0.3581173
1118	0.3615382	1	0.6524411	0.3054401	0.3021341	0.5561616	0.488625	0.6021982
1119	0.6450328	0.4775546	0.3320132	0.3678262	0.1528721	0.4271344	0.2761309	0.5040751
1120	2.6301196	1.7540234	3.7993845	2.2287305	1.8753118	1	2.2851816	2.3277351
1121	2.146987	2.28995	1.5377152	2.107367	1.6330771	1.872403	1.8105858	2.0608374
1122	2.3192558	1.4665063	3.2861371	2.3705263	1.5396198	1.3706732	1.8421956	1.8143739
1123	1	1	14.406763	3.5664127	1	2.3931493	1	2.2431348
1124	2.816931	2.7129178	2.2203094	3.2868051	2.3189063	1.9120504	1.6630956	4.6811193
1125	1.1470564	1.321351	3.5129196	1.5413326	1.1933821	2.0792547	1.4712273	1.7084637
1126	2.7082477	2.7963286	4.6241439	3.9444168	2.7401038	1.7223258	2.7485418	3.1806415
1127	2.2150116	2.2822936	4.2514162	3.781194	1.5784368	1.458734	2.3957312	3.1487359

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
1128	2.1444274	2.3925393	3.6131036	3.6599152	1.3991263	2.9179971	2.2689184	2.8623509
1129	2.1711202	1000	3.4213115	1.3867288	1.8895446	1.8804479	1.4809557	1
1130	6.0571725	6.132085	1	8.6720594	2.6368722	2.7381449	4.5758491	1
1131	1.7009247	1.4011749	2.6815171	2.9506877	1.3501183	2.0809997	2.0102316	3.2852499
1132	0.6154099	0.6416793	0.2690006	1	0.7111521	0.5794306	0.8092315	0.3448786
1133	1	1.7841236	2.8322934	1.5194005	1.9627776	1.3283328	1.7366334	3.429472
1134	1	2.4442683	4.4366919	1	2.1423859	1.7861147	1	4.0169718
1135	2.9523641	1.921038	2.661262	3.0628915	1.8032806	1.9652798	2.1146223	3.1148027
1136	2.3141584	1.7210977	2.9591205	3.5087577	2.8090712	1.6723802	2.6751664	3.7897589
1137	3.2450927	2.1814629	2.7570843	1.7112069	2.2929692	2.2134551	2.5906126	2.9720639
1138	2.3927208	2.387301	3.1660258	1.9803459	1.8650946	1.7878184	1	2.5482103
1139	1.9033737	1.7388286	3.0065027	1.9683727	1.5757355	1.8006174	1.8323987	2.656369
1140	2.4242296	4.0928875	1	1.7494345	1.9209458	2.4016957	2.5604039	3.6908627
1141	2.5178308	2.2892905	2.6410882	1	2.9170151	1.762564	1	3.7374271
1142	2.3412044	2.3542948	2.4457954	1	1.6215973	2.3219477	1	3.4601389
1143	1	0.4603277	1	1	0.7637656	0.667732	0.4293086	1
1144	1	0.6076758	0.508305	0.7790096	1	0.5201349	0.37266	0.7712016
1145	1.9592207	1.6113666	3.4755398	1.9624816	2.5125031	1.5566878	1	4.3502921
1146	2.5795147	1.9729385	2.8775186	2.7148702	2.3688455	1.2788612	1.5909425	3.0314332
1147	2.2458949	2.708146	3.0526012	1	2.6562836	2.0757853	1	3.7033282
1148	2.2177996	2.1756562	3.0323795	2.6301311	1.8840449	1.6686566	1.7649279	4.3097317
1149	1	1.30184	2.9783739	4.4043282	0.7945494	1	1.321327	2.5021586
1150	0.3793334	0.6022284	0.2456882	0.2598938	0.2548789	0.3344843	0.2444885	0.2758681
1151	2.6073243	3.1350225	2.994873	1	1.7698434	3.119813	1	4.3914601
1152	1	6.222498	1	1	4.8324363	3.4957583	3.9245618	8.5927885
1153	1	2.4988228	1.6594157	2.9094742	1.267372	1.3061424	1.7045813	2.5445889
1154	1.9517799	2.2225115	2.5576117	1.63171	1.2735376	1.7512489	1.5472801	2.8597
1155	1.490607	1	2.0874988	5.7693725	1.8024894	1.8547263	2.4530661	5.5989888
1156	0.7668437	0.6634689	0.3037505	1	0.6406878	0.513251	0.8465803	0.3578807
1157	2.2707626	2.9651394	3.1245399	2.2504931	2.4557172	2.2801981	2.0255488	2.7301842
1158	0.9499382	0.4378249	0.4398665	0.7969999	0.7598425	0.577191	0.7180262	0.5067261
1159	0.9216073	0.3608802	0.5454791	0.6987445	0.7582997	1	0.5302106	0.630301
1160	0.4465607	1.2041834	2.8146241	0.6109384	1	1	1	0.70242
1161	0.7864867	0.4115905	0.4914476	0.6001373	0.74795	0.6184803	0.5332943	0.8229022
1162	1.0921652	0.2793192	0.5656616	0.6323904	0.8583248	0.5020253	0.6852486	0.6281077
1163	1	0.4218634	0.5709142	0.4421709	0.751127	1	0.5006145	0.5693222
1164	2.078453	2.1273104	4.3702188	3.1773384	2.8682898	2.2652213	2.1716232	3.5270428
1165	1.8564319	1	3.5575584	2.0320792	1.7068559	2.144129	1.5533164	2.9848056
1166	2.0066689	2.393676	2.2998621	4.7615394	1.5123045	2.7133232	2.2280634	3.1834423
1167	2.236007	2.4291699	2.5891846	4.9765848	3.1575269	2.2096628	3.4774463	7.5747604
1168	1.6392743	2.1373635	3.2673044	2.0715472	2.1110926	1.2799742	1.9941673	2.784725
1169	0.6107735	0.3486504	0.1335394	0.2066018	0.4954885	0.1396415	0.1661818	0.0231166
1170	1	0.2523931	0.3520295	0.6408473	0.6941708	0.4205116	0.4449332	0.4267964
1171	0.7264958	0.5155846	0.2770152	1	0.6773839	0.4871309	0.861238	0.343561
1172	0.1307611	0.0955066	1	0.0218481	0.0534643	0.1664006	0.2069931	0.2749924
1173	1.5308322	1.9479266	2.5281238	1	2.5839867	1.5645678	1.6770432	3.3582209
1174	1.5642529	3.5935379	7.8973228	2.9793902	2.0809841	3.4015075	2.2823289	7.2716731
1175	0.5905374	0.047445	1	0.4165615	0.1024021	0.1164687	0.1801632	0.4908206
1176	1	0.3949158	0.5057471	0.7185447	1.0946542	0.4442821	0.3148781	0.6981438

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
1177	1.1355456	0.402599	0.4927179	0.6559948	1	0.4225177	0.3093855	0.7027671
1178	1	1.3894651	0.7354337	0.5898235	1	0.4364159	0.3053207	0.5187656
1179	1.9617581	1.5399659	2.8677812	1.7227313	2.8172959	1.749978	2.513283	3.0783448
1180	1.877954	2.0502961	2.7526068	1.9341096	2.6486424	1.6677704	2.1177716	3.3331004
1181	2.2075359	2.3563483	3.4709232	1.74093	2.846807	1.9953846	1.6609373	3.8210886
1182	2.3653855	1.7763385	2.726518	3.705209	4.5875142	1.4824702	3.2222852	2.9870699
1183	2.074109	1.5112651	3.2502016	1	2.7577203	1.6582622	2.235179	3.31983
1184	2.3739053	2.4486058	6.2518832	1.7217756	3.7462822	2.0158163	2.9645578	4.0200093
1185	2.5646498	2.1996441	2.164296	2.2007588	1.5999297	1.6887585	2.0922503	2.6385384
1186	2.2236256	2.0189466	3.4968574	1	2.5525538	1.910855	1	5.440163
1187	2.1942953	2.5873325	2.5502273	2.5533895	2.3820002	1.8252604	2.6249992	3.6223493
1188	1	1.9681452	2.1564816	2.7572373	1.5628467	2.0864683	1.4185545	3.1060058
1189	0.6218682	1	0.3895364	1	0.6899734	0.5701285	1	0.4871914
1190	0.8113189	1.4576274	5.8874052	0.6875685	1.2039962	0.61971	1.4345232	0.541393
1191	1.2186331	0.7704762	2.4180698	2.3891387	0.721456	1.4378627	1	2.5040363
1192	0.2425162	0.7017616	0.1044772	1	0.1685528	0.0847014	0.1975348	0.2762863
1193	0.6711984	0.5744338	0.2863107	1	0.6264421	0.5085587	0.8695641	0.3610602
1194	1	0.2357238	1	0.3113444	0.2071961	0.2108363	0.4053242	0.4163032
1195	2.3077256	2.3242268	3.0540879	3.1394148	1.7162083	2.003244	2.5715754	3.7210799
1196	0.6454427	0.5087431	0.3929117	0.5877868	0.7178918	0.5208287	0.6470076	0.5261661
1197	0.5177002	0.7811941	0.3275256	1.9944715	0.8548077	0.4789624	0.4998157	1
1198	0.7745486	0.4566764	0.370767	0.4630268	0.6971568	0.4485897	0.6105415	0.5042014
1199	1	0.0406572	0.1884694	0.254578	0.0893643	0.0723009	0.0903817	0.1218235
1200	1	0.5856503	0.3131076	0.6765821	0.7181621	0.51648	0.6954515	0.4500471
1201	2.3342418	3.1567317	2.7766156	2.369742	2.29292	2.3879143	2.3030405	4.0222421
1202	1	1.921483	3.7918036	1.9648006	1	1.6125142	1.5139926	2.1357098
1203	1	0.0960803	1	0.206937	0.7211247	0.7275293	0.2096628	0.2117651
1204	3.3894295	2.4325746	2.6098731	3.0884935	1.7819795	2.0668611	2.0045192	2.3736526
1205	1.315661	1.3326747	2.6619398	2.0273009	1.5608825	2.012443	1.809379	1.9412073
1206	2.6362229	2.496839	2.404257	1.9093611	1.8720249	2.0821127	1.6266178	2.2597819
1207	2.496716	2.3460594	2.9820561	2.9041202	1.567848	1.9722049	2.3936189	4.3976061
1208	2.2349072	1	1	1	0.2735682	2.398563	0.39343	1
1209	1.9919007	2.4775586	3.8981004	2.6790937	2.0963827	2.3686574	2.1427437	2.3251552
1210	1	2.0548856	2.7207219	2.1683683	1.1661881	2.0132949	1	2.7879677
1211	2.7697593	2.3204469	2.9470226	2.1164682	3.2310778	2.0045493	1.9661569	3.453409
1212	1	0.6266882	0.3140594	0.7080968	0.7771702	0.4790654	0.8432335	0.3739518
1213	1.8352025	1.742512	2.1175257	1.8845893	1.6378352	1.777369	1.8577051	3.8455385
1214	2.3530725	2.1435991	5.466583	1	3.2143526	2.9699006	2.8820606	4.6947683
1215	0.6460996	0.6834678	0.2724682	0.6972846	0.6630979	0.5173662	0.784088	0.3407207
1216	1.8702655	2.1569495	2.1789597	1	1.5546572	1.646054	1.6280662	3.6900343
1217	1	1.8326999	5.5025568	1	2.0229654	1	1	3.9725849
1218	1	4.569863	1	2.7331993	1	3.1157871	1.8650534	2.8194314
1219	0.2325233	0.4534058	0.1077592	0.2131107	0.0903142	0.2519195	0.1272127	0.1226756
1220	1.6193814	1	1	2.5834277	2.0054547	1	1	2.7060341
1221	3.1696808	0.4902455	3.7957051	0.3716612	2.5016163	1.3413791	1	1.3065591
1222	0.5205531	0.0430002	1	0.3405117	0.0732439	0.040829	0.1536514	0.4357038
1223	1.4768386	2.2491158	2.6373119	1	3.0037265	4.3419684	2.9579995	1.6308931
1224	2.5550868	3.2749984	3.5652439	1	1.8749496	1.1775067	1.934568	3.5877297
1225	2.0130788	1.2254423	1.6298734	2.5827111	3.0202898	1.3479194	2.5305342	3.2337702

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
1226	0.2008331	0.6015904	1	0.0365277	0.1527249	0.046964	0.0583303	0.1304153
1227	0.7971244	0.1995329	0.5821117	0.2779908	0.9030201	0.5755628	0.2233279	0.2792449
1228	2.0903287	1.5088792	1.7482337	1.5509861	3.413439	2.1107884	2.2545292	2.4982769
1229	1.9921305	2.1737475	2.1679621	2.2717423	1.9453674	1.4938952	1.843219	2.5687233
1230	2.241289	2.4989836	2.1549254	2.7782158	1.5142771	4.7295517	2.8009621	4.0223052
1231	1.3053375	1.9075964	3.6801033	1.6670588	1.5583546	1.8629635	1	2.5579934
1232	0.6482827	0.4798118	0.3029699	0.3884162	0.6956402	0.5601738	0.4703194	0.5684623
1233	2.1374198	2.3054236	2.4650226	1.8785817	2.3651212	1.4241431	2.354799	2.071662
1234	1	1.6648328	18.057196	6.0235413	2.1572278	4.8796152	1.8971638	1.8812541
1235	1.1368314	1.9915648	2.6342101	1	1.7862412	0.7208309	1.7631216	2.0637487
1236	0.5474816	0.5931834	1	0.2629983	0.2984264	0.4022921	0.4417236	0.5289984
1237	1.4926686	2.5641381	2.9538241	1.44009	1.5090994	1	1.9601342	2.5136301
1238	0.6564001	0.5733882	0.2964198	0.3439227	0.5431272	0.3972838	1	0.301178
1239	1	2.8672361	3.6093606	1	2.8168501	2.0958116	1.9255862	4.0585028
1240	2.5752061	1.7473106	4.6309733	1	2.137926	1.8593499	1	3.0782501
1241	2.1442144	2.4758804	3.3304642	1	2.2358022	1.9672722	2.2767605	3.5186167
1242	2.013971	1.6687682	2.8525194	1	2.009681	1.8572682	1	3.6211737
1243	1.9884601	1.7700815	2.5994877	1	2.0517617	1.451383	1	2.859274
1244	2.1034677	1.7650415	2.720958	1	2.1460017	1.6188416	1	3.4138505
1245	2.4309871	2.0553306	3.6195683	1	2.6485111	2.060678	1	4.1335724
1246	2.660676	1.8574277	6.1640102	1	2.7778025	2.0948773	2.8855883	4.6639831
1247	1.9736419	2.0216221	2.060882	1	2.2040592	1.5373073	1	1.8600626
1248	1.8386808	2.1628741	3.8706728	1	2.0450047	2.6160152	1	4.1667324
1249	1	3.5069369	3.250707	1	2.9745316	2.0050783	1	4.5547199
1250	0.7337005	0.5532929	0.2868778	0.546627	0.6907811	0.4726762	1	0.3371862
1251	1.0327995	0.4400071	0.453185	0.3897298	0.8507835	0.4287901	0.325372	0.6958085
1252	0.553831	0.5302808	0.322026	0.3516178	0.5654159	0.4310229	1	0.3627249
1253	1	2.3393091	2.8330611	1	1	1.6062899	1	2.2917742
1254	1	1.8037257	4.3671755	1	2.8582345	1.5066529	1	3.499579
1255	2.4985946	2.8376882	3.6721302	1	2.5759474	2.1320308	1.9137804	2.0296735
1256	2.4117021	1.2776752	3.431796	1	1.927463	1.543408	2.3416272	3.7228708
1257	0.339128	1	1	0.2935599	0.6422365	1	0.6430831	0.5778036
1258	1	1.5693798	1.674391	1	1	1	1	2.0086871
1259	0.706914	0.3923047	0.4323519	0.4260283	0.3488368	0.4730884	0.6600259	0.4931165
1260	0.6434609	1	0.3387931	0.599801	0.5520686	0.4955056	1	0.4287294
1261	0.6009991	0.6463332	0.2780333	0.7030391	0.6517997	0.4877973	0.8562251	0.334985
1262	1.8893373	1.3721309	2.2639125	1	2.0340997	2.5107516	2.4948056	2.994778
1263	1	2.171517	2.9600982	2.6282009	1.2905883	1.4615164	1.4472694	3.0223917
1264	1.1314236	0.213827	0.70531	0.4595237	1	0.5060099	0.5722515	0.7235878
1265	1	0.5124051	0.4704836	0.3977951	0.6603593	0.6600237	1	0.553259
1266	1.0835438	0.2870131	0.5877914	0.4142302	0.8275533	0.4199757	1	0.5680047
1267	1	1.5582115	3.8773736	1	1	2.1064534	1	3.4203042
1268	1	2.470878	2.989163	1.7488102	1	1	1	2.34039
1269	3.1999902	1.6801777	2.9546591	3.8741742	3.2853432	1	6.4404006	5.8178939
1270	2.2017376	2.1110111	3.5194253	2.5508014	3.3208913	2.1556502	2.403444	3.5013069
1271	7.3567601	1	19.260639	18.837124	3.2192937	5.4625702	5.6124529	9.6892788
1272	1.1459146	0.4597325	0.4715803	0.6322874	0.8087481	0.4849668	0.5476819	0.4990731
1273	1.6882528	2.4731835	2.6396431	1	2.283996	3.5300263	1	3.4558233
1274	1	2.2984696	0.2844317	0.2024379	0.5503816	0.0998362	0.0781247	0.7711937

Table 4

SEQ ID NO	Patient ID							
	10	15	52	121	125	128	130	133
1275	1	0.1467423	1	1	0.3144466	0.4901057	0.3549393	0.3639557
1276	0.7719931	0.5554858	0.2851793	0.646853	0.6126439	0.3645547	0.5146903	0.395522
1277	2.9980879	2.7920447	3.9957082	1.6112113	2.8814446	2.0687435	1.8948765	2.2221484
1278	1	1.9276382	3.7297871	1	2.511794	1.5528062	1.9432544	3.8144219
1279	3.2870988	2.1460386	6.8463581	1	3.2172573	2.5222384	1	5.5854739
1280	0.7625228	0.1909007	1	0.1411982	0.3067028	1	0.6385224	0.5419689
1281	1.1689064	1.3544001	1.8051478	1	2.0140771	1.6627278	2.0391499	1.7324245
1282	2.5910491	2.8688553	5.3096808	2.8023807	2.8580815	1.9979609	2.8063143	3.6814425
1283	0.6543406	0.563051	0.2933293	0.6163861	0.6990549	0.610085	0.8037644	0.3683817
1284	2.4717703	2.4150903	3.1449095	2.1899923	1.6956644	2.1627745	2.4902286	4.353448
1285	2.3038461	2.3625893	2.2230642	1	2.1897348	1	1	2.3996252
1286	1.3629092	1.8173388	2.024229	1	1.7579871	1	1	3.5485735
1287	1.7399326	1	1.8075932	1.9361204	1.4245996	2.87104	1	4.1469532
1288	2.0813089	1	2.7334106	1.8104237	1	2.1385161	1	1.6301593
1289	2.6829165	3.3098061	3.0153207	3.0137203	1.3874579	1	1.784048	4.8508485
1290	3.6969657	2.4844965	3.8862639	1	2.6946163	2.4406286	1	4.2362084
1291	2.5343119	2.1117939	6.2825726	1	3.5031161	3.3852597	1	5.5070906
1292	1	0.0386198	1	0.3360761	0.092462	0.1076132	0.1799378	0.4263072
1293	0.6842088	0.6599302	0.292757	1	0.7360129	0.490669	0.843869	0.3212729
1294	1.2589521	1.5194952	2.1948217	2.5198068	2.0448873	1.4213332	2.1837987	3.6591149
1295	0.5936804	0.7066353	0.2928486	1	1	0.4945918	0.8631881	0.3155213
1296	0.5269518	0.5842884	1	0.287323	0.3304994	1	0.437765	0.5872316
1297	0.285519	1	0.6474432	0.5365938	0.4586963	0.6152032	0.4693879	1
1298	1.4963161	1	3.286826	1.6277451	1	2.6483046	1.2249398	3.2408314
1299	2.6906085	1	1	1	1	1	1	0.5251404
1300	0.5243022	0.6275237	0.3252376	0.5569527	0.6672154	0.4100141	0.808399	0.3735021
1301	1	1	5.1177281	1.6998047	1.2829919	2.5707619	1.5219403	4.616748
1302	1.7764482	1	1	1	1	1	0.4341436	0.480856
1303	0.4865289	1	0.1170593	0.3118501	0.5948268	0.4278283	0.55355	0.2617773

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
1	1	1	1.8454224	1	1000		1000	1000
2	0.8164474	0.8178862	0.7936883	0.8687693	0.8841135		0.30259	0.8741052
3	2.0365961	1	1	2.0287516	1.7233415		1	4.9176463
4	0.6389055	0.5757827	0.3848124	0.2982074	0.2948369		0.3210765	0.5209778
5	0.8303428	0.4766504	0.6754531	0.6150867	0.7361969		0.5658911	0.2548084
6	0.8620319	0.5081246	0.7607838	0.6420504	0.8582275		0.6269873	0.2753265
7	0.7601867	0.4628901	1.1769849	2.3942662	1.3424934		1	2.6778042
8	1	4.622082	2.1632955	2.7848672	2.2634272		2.1258811	2.3332255
9	0.4946185	0.2560052	0.6223539	0.6177607	0.4746162		0.4591715	0.7039204
10	0.2611992	0.1800528	0.5926713	1	0.3901546		0.2763202	1
11	0.2267179	1	0.1857397	0.8586105	0.6968087		0.1638946	0.794684
12	1.3699983	1.4593534	1	1.3311263	0.8214031		2.143429	3.0080234
13	0.3787027	0.3503233	0.3959456	0.4740781	0.2747502		0.313614	0.7567147
14	1	1.7326482	1.4638074	1.6965099	2.1403422		1	2.1122703
15	0.5508901	0.4619248	1.3173064	1	0.5475913		0.286754	0.6256477
16	2.1300208	3.086192	1.9996034	2.7577431	2.0065399		2.134902	2.6926852
17	2.5677654	1.7380651	1.5175083	3.6557933	2.1953751		1	3.2402651
18	1	3.080972	1.88923	1.8154843	1.4170157		1.8174038	1.2712361
19	0.5969454	1.5851579	0.6753138	0.6961726	0.5535283		0.5050108	0.3274752
20	3.060172	1	1	3.1180237	1.8402879		1	1
21	1	1.3965895	1	0.2467344	0.1222395		0.0791483	2.2133767
22	2.4538425	1.3013615	1.7778602	3.1075427	3.8044287		3.0324295	3.1140963
23	1.4825086	1.1889853	1.5536715	2.8380162	1.4991341		3.0794953	2.7531218
24	1.2636418	3.088467	1.4877327	2.1169631	1.633915		1	1.8214606
25	0.7840685	0.53642	0.670591	0.6825002	0.7165255		0.6263949	0.4026313
26	1	1	1	4.3228983	3.9827613		1	3.1348068
27	1	0.46115	0.7198244	0.6154172	0.7581749		0.5622435	0.282857
28	0.3813088	0.2089507	1	1.5873939	0.6352755		0.5292887	0.6119835
29	2.2373299	1.319727	3.1787031	1	1.9910388		2.5175858	1
30	2.2571273	6.5869592	3.0762062	5.642018	2.880487		8.3454687	3.2442694
31	2.0340667	6.371903	2.1925598	6.2673728	5.5161954		4.2418401	8.7507054
32	1.6639487	1.5592666	1	1.7393899	1		2.6272195	2.6953982
33	1	1.7466545	1.5704741	2.3509849	1		2.3784815	3.1826904
34	1.2310329	2.1145564	1.1943497	2.0346692	1.4778661		1.5136082	1.6466073
35	1.3891168	2.0894766	1	2.2595319	2.0908869		1.9086987	1.8778185
36	1.8831769	1.8187826	1.3111874	2.0607897	1.5824534		1.6744006	1.2623335
37	1.9214687	2.5502209	1.3304216	2.5222354	1.9635657		2.3632194	1.5326873
38	1	1.2107756	2.7569613	2.0645602	1.9791469		1.39532	5.2200653
39	0.2425515	0.4414318	0.3895461	0.506044	0.4407241		0.2113942	0.7377177
40	1.201063	2.6709467	1.3903821	3.5591375	2.9660631		2.0500093	2.1452854
41	0.2876213	0.7686121	1.4842169	3.533406	2.0625035		1.6152211	1.1725757
42	2.7697803	3.1248723	2.2702971	1.8541331	2.6517341		2.7531443	1.9142232
43	1	0.5115862	0.7034905	0.691511	0.8152347		0.5966288	0.2993583
44	0.3488095	1.2815448	0.3388898	1	0.769221		0.4410781	0.6477799
45	1.129593	1.7203697	0.6396199	1.7953916	2.3663347		2.2958199	0.8448274
46	1	2.3158707	1	2.0247366	1.5949302		1.5575379	2.1783253
47	2.4590547	2.3877282	1.3540613	4.5902994	2.3103189		2.1731885	2.0342832
48	0.4569398	0.2674414	0.5339349	0.5481679	1		0.4777492	0.6475067
49	1	3.6415863	2.2768126	1	2.0590858		1	1

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
50	1	1	0.1808417	0.1765293	0.1833954		0.1135145	0.0721949
51	1	2.6636177	1.6224367	2.8016447	3.9591947		4.7280252	3.5682493
52	1	0.4729306	1	0.614407	0.8400957		0.6354079	0.3006248
53	1	1	1	1	1000		1000	1000
54	1	1	1	3.7674397	2.3381877		1	1
55	1	1	1	0.2521423	0.3751351		0.3212522	0.177765
56	1.298134	1.2975125	1	1.9023067	1.8333063		1.8364165	2.1370099
57	0.2664442	0.3117722	0.2541745	0.4827274	0.2742164		0.3522382	0.6097858
58	1	0.4367097	1	0.7676061	1		0.4552797	0.3566225
59	0.7553469	2.1005562	2.1964577	1.705636	1.6313868		1.5730606	2.5473766
60	2.1556983	1	1	2.2472893	2.374085		1.8553424	2.8459465
61	3.7608569	1.6106619	3.165087	4.5160052	2.4678798		4.0582358	4.6508871
62	1.6968751	1.865831	1.4976363	2.1390941	3.1434614		2.9111699	1.2717203
63	1.1758235	2.0026597	1.2811425	2.0840176	2.004286		2.3803905	1.8804507
64	1	2.0324677	1	2.1899493	2.231777		2.1119375	1.5900943
65	1.4085967	3.4269298	1.7564802	2.7030487	2.0060772		2.3598544	3.0207129
66	1	0.4652695	0.7369059	0.6209905	0.7951415		0.5641913	0.2910642
67	1.8183424	2.1152081	1	2.7910463	2.3361468		1.4661897	2.3858833
68	1.4696315	3.097493	1.4655722	3.3953469	2.761162		2.0069311	3.8093873
69	1.4600175	1.9740016	1	2.4541497	2.3079435		1.7175263	1.8624036
70	1	1	1.9293718	7.7522171	1		1	4.5870795
71	0.5099593	2.2727389	1	1.6165219	1.7770776		2.4154923	0.5330589
72	0.3118207	0.2171221	0.25599	0.7731907	0.5546754		0.3312461	0.4270481
73	2.5668237	1	1	1	1.272363		1	1
74	1.7063686	2.4321388	1.621006	1.7231018	2.1533236		2.0592992	1.7426602
75	1	1	1	1	1		1	1000
76	1.9014851	1.5366216	1.8049827	2.2306301	1.7352453		1	2.0693407
77	0.8551006	0.4997872	0.7169075	0.6587012	0.8378501		0.6118663	0.3509979
78	1	0.4237548	0.7049381	0.6021695	0.8174469		0.5640106	0.2502082
79	0.8646927	0.428108	0.7988452	0.6319662	0.7478512		0.5197252	0.2659211
80	1.7007951	2.429661	1.9207179	4.5700682	3.024067		2.2690104	3.7515954
81	2.5961804	1.9505389	2.3266462	6.624488	5.8872086		1	4.4084392
82	1	1.7796781	1.4974281	2.5577148	1.7290795		1.2081605	3.6245575
83	2.0870533	2.4139024	1	4.3042264	2.2769061		1.9618621	1.9161788
84	8.6605923	3.281364	1	2.5583118	1.7372814		2.1371692	4.5224027
85	0.0770326	0.7528227	0.3578818	0.3748227	0.3321899		0.1111985	0.2712974
86	1.3604171	2.0296394	1.3864687	2.649841	2.2000255		1.7090872	2.5782188
87	1.6290513	3.4355131	1	3.7617141	4.6973677		4.3112934	4.7885535
88	1.5210852	2.2157792	1	2.2000586	1.9374337		2.2743221	1.6164604
89	0.5842107	2.0141021	1	1.4449822	1.7935668		1.4354138	1.9216668
90	1.2088484	1.843598	1	2.0791049	1.93243		1.8203393	1.7808219
91	1.2974223	3.4275692	1	1.8947907	1.9421922		1.7784561	2.0153793
92	1.5892155	4.530248	2.725358	3.5818992	3.8023499		3.6716364	4.24206
93	1	0.5217989	1	0.6715277	0.6768552		0.6276578	0.3733412
94	1.2383146	2.5823099	1.6116813	2.6456382	1.5676941		3.7056823	5.2817187
95	5.9547704	3.3384221	3.769672	6.7527453	1		4.7475444	4.3623186
96	1.3071786	2.1187004	1.5957115	2.4541497	2.1095221		1.8213396	2.0707934
97	1.6604557	3.3966792	2.7669818	1000	1		1	1
98	2.639345	0.7135338	2.8012284	1.7597341	2.3969827		1	2.5359225

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
99	1	0.4633205	0.7667513	0.6688876	0.788519		0.6098466	0.3109924
100	0.8773398	0.5611001	0.7022909	0.7045982	0.8904148		0.5971662	0.2469489
101	2.7417486	2.7820502	2.5149176	3.1005109	3.5758893		2.2876179	4.0751966
102	1.3426892	1.819379	1	2.5243098	1.7585304		2.0770616	2.4547816
103	0.4474353	0.4779846	0.597857	0.5368613	0.8094407		0.3485279	0.3296542
104	1	0.479159	1	0.6746748	0.6536243		0.5719451	0.3441876
105	1.6979153	2.4381336	1	1.9798087	3.0541962		1.5730167	1.7269225
106	1.3613917	2.6859306	1.3619403	2.3547365	2.8439924		4.1142381	1.3568841
107	0.6557136	0.8089155	1.8866761	1.4851439	2.0435453		1.9671358	2.6800702
108	2.0715263	1.9884444	1	1.5702741	2.2712581		1.2918362	1.9671541
109	1.9009814	1	1.9459605	2.2870773	1		2.506722	2.3911727
110	1.8861553	1.1966463	1.1800995	1.2384229	2.2866327		2.2089696	2.3979147
111	1.2000775	1.878835	1.4096258	2.1463341	2.8265488		1.5410952	1.4703261
112	2.4316908	1	0.5458493	1	1		1	1.2547409
113	1	0.4842131	0.787	0.645008	0.756551		0.5551696	0.2996004
114	1	0.4694813	0.7434041	0.673071	0.7072261		0.5731377	0.2981788
115	1	3.6283548	1	1.3753373	1		1.7870859	1.529726
116	0.9115583	0.5238771	0.744616	0.6327062	0.8095819		0.5988735	0.2979056
117	1	0.5318578	0.6976557	0.6929223	0.6330908		0.5248713	0.3303682
118	0.5369837	0.4669665	0.5238625	0.4142943	1		0.3346117	0.2238483
119	0.7793929	0.5143284	0.6430526	0.5768024	0.8255054		0.5095502	0.2719554
120	0.7314432	0.5029353	0.6171001	0.5487677	0.8352354		0.4435606	0.2807648
121	1	5.5218294	1.385271	2.2056872	2.1065207		1	1.5221147
122	0.2777774	1	0.4137001	0.1917251	0.2186291		0.2568164	0.2336013
123	1.6809648	1.6248096	2.6786697	4.6996659	4.0351873		1.804079	3.9164225
124	9.9735087	10.560436	1.7620652	6.6537847	5.2289454		4.2811582	1
125	1	2.0627306	1.9694536	1.8289423	1.4254334		1.421437	2.2152267
126	0.5896747	0.776267	1.9860089	1.5259007	2.0363095		1.6807936	2.9946882
127	1	0.4499782	0.7169484	0.6442336	0.8272818		0.5488108	0.3217015
128	1	0.4919172	0.7171531	0.6237872	0.9164479		0.5740251	0.265083
129	1	1	1	1	1.8162714		1	1000
130	1	1	1.9891014	1000	1000		1	1000
131	1	1	1.937556	1	1000		1	1
132	1.8116301	2.4782895	2.4496068	3.7843482	3.833139		2.514328	1
133	1	2.3248352	1.4417969	3.3132452	3.5017515		1.8673318	1.6995072
134	1	0.4728998	0.8227754	0.6444284	0.7282764		0.5237151	0.3684367
135	0.8272111	0.5696158	0.7046481	0.7227974	1		0.6437928	0.3387182
136	0.3771369	5.7797468	1.7189821	0.4140931	0.4935724		0.1575211	1
137	1.5053064	1	1	3.2623914	3.0370011		1	2.2752846
138	0.2832523	1.5445532	0.3786395	0.5483716	0.3221969		0.3898424	1.277854
139	1.5834887	4.8524664	1.7901487	2.6410851	2.6562891		1	4.0939329
140	1	3.4275754	1	1.8144111	1		1	1.66476
141	1.7244141	3.9531433	1.4316089	2.4368472	2.3547241		1.954445	1.7917669
142	2.4398047	2.9177292	1.3644553	2.5102707	2.249016		2.7621865	1.2472973
143	1.4992511	2.2330872	0.7063719	1.7733584	2.3893286		1.6473792	2.6512084
144	1.2156593	1.2718425	1	1.6409282	1.6784892		1	2.531136
145	1.9933987	2.7627931	2.4132902	2.6010659	3.1770445		3.543046	2.770455
146	1.397603	2.0129831	1.4136977	1.9957201	1.6774372		2.1955427	2.2231235
147	1	3.3234197	1	1.5777974	1		2.0602027	2.2063118

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
148	1.3630013	1.7550103	1.7474392	2.3302795	2.8138619		2.4025157	1.7019967
149	1	0.4789561	0.6913711	0.5566583	0.7236113		0.5255027	0.2262136
150	0.5318263	1.4497248	1	1.072867	0.6488462		0.4005673	0.828264
151	2.6274534	1	1.4007965	6.9021719	4.0351873		1	2.1920329
152	1.4462316	1.4247189	1	1.9995165	1.8488444		1	1.3152458
153	1.8586491	1	1.8201524	2.1052884	2.2797407		2.484835	1
154	1.9890187	2.3080559	1.5385113	4.0081198	1.9232438		1.9005229	2.2764455
155	1.3684105	1	1.3077292	3.5573224	1		1	2.3677554
156	1.7382	3.8781193	1	1.9637469	1.8878678		1.8741013	2.3889439
157	1.2457496	3.5414457	1.4108132	2.1561044	1.6043807		1	1.7278413
158	1.255725	1	5.4499278	5.2113179	5.335184		2.0945879	5.2879393
159	0.7936277	0.4543436	0.791887	0.7046629	0.6919929		0.534419	0.3722982
160	0.8262366	0.4968974	0.6893664	0.6917292	1		0.6390977	0.3077207
161	0.8363434	0.509588	1	0.6199569	1		0.6055799	0.3164246
162	0.5619495	0.4503779	1	0.6310307	1		1	0.7153372
163	1	1.9720894	2.4056641	2.2988629	1.4656333		1.3070889	2.8826803
164	2.7408178	1	2.752129	1.7320868	2.4175516		1	2.5061171
165	0.5726914	1	1	0.379346	0.6716614		0.7538376	2.1338437
166	3.2920145	1.867571	1.8691761	3.090645	2.5016827		1.8357584	3.9973399
167	1	0.3215667	1.117592	0.3849738	0.2886365		0.1956019	0.6023546
168	1	0.3057405	1	0.755945	2.0573812		1	1
169	1.4995795	1.4364871	1	1.6342878	1.4011801		1.3912205	1.2415424
170	1.274734	2.8108621	2.0292144	2.7607197	1.6876484		1	3.1415302
171	1.7028975	2.4199464	1.8785875	5.0637791	2.6189005		2.7730612	3.2988765
172	2.8236758	2.0099457	1.5488184	1.7731535	1.9574898		1.6744504	1.5714077
173	1.6615726	2.2449969	1.901144	3.376967	2.7973471		1.8113281	2.3166124
174	1.7110662	1.9245861	1	1.754022	1.1819013		2.1911033	2.6080553
175	1.1324947	2.2960294	0.7410796	2.6015069	1.7571982		1.2814656	1.6600418
176	1.4356649	3.6041973	2.213748	3.3005611	2.0463096		5.8085356	3.2306176
177	0.2115523	1	0.4717015	0.324132	0.4863727		0.4518806	0.3036233
178	0.6881691	3.4827705	1.6205877	2.07108	1.7533904		2.4915372	2.0131009
179	2.1570999	1.5194058	1.6231006	3.0728223	3.1577259		1.7864626	1.7501908
180	1.3081313	1.4034881	1.3251583	1.5935256	1.7910279		1.3541106	1.3702379
181	1	1	1	4.41569	1.9854715		1	2.3597717
182	1.3656402	1.6893505	1.3772715	1.9943195	1.8274326		1.9023837	1.4787072
183	2.4840862	0.5716632	2.8592531	1.6659743	2.1581319		0.586305	2.5574587
184	0.3832469	1.8703563	1.5389197	1.3802357	1.4656333		1.6435352	1.468712
185	1.6567655	1.4557873	1.3374809	2.1403471	1.1841136		2.5945577	3.2642286
186	1.4581451	1.7587117	1.5320375	1.8820565	1.7611117		1.5411795	1.5974013
187	0.8263023	1.664074	1.3102756	1.7501812	1.2528908		1.2566874	1.5376538
188	1.9496209	3.728311	1.7398553	2.5612151	2.5336539		2.5709999	1.6709558
189	1.4440744	2.9486193	1.4959123	2.5321402	3.1770445		3.0982902	1.8083427
190	1.2937212	1	0.6444052	0.5358753	1		1	0.6793298
191	1	3.6231408	1.8977452	3.0438115	2.0370845		1	1
192	0.8896585	0.5276154	0.7959262	0.6401542	1		0.5858296	0.3199012
193	1.6704091	1.9843925	1	1.9954087	2.7991474		2.4282958	2.1324717
194	0.3552918	0.2644533	0.291124	0.6809254	0.8794986		0.5395774	0.5123485
195	0.8905126	0.5263488	0.7578767	0.6185675	0.7827801		0.5932244	0.2846263
196	2.4808231	1.3536176	1.8007993	2.9646644	3.7352016		2.7047763	3.3263477

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
197	1	0.5255741	0.8404747	0.6810342	0.8681422		0.5600195	0.3128176
198	1	2.5868598	1.6989101	2.4071855	2.0100755		1.9248029	3.2282709
199	1.4780192	1.6272137	1	1	1		1	2.3858336
200	2.1934317	1	1	1	1		1	1
201	2.0593719	1.4362719	1.5050834	3.7297159	3.3791485		1.9273705	2.2652646
202	1	3.9445354	2.3536023	2.7201051	1		1	2.5892011
203	1.5957636	2.8455212	1.8503155	1	3.1654827		1	1
204	2.8454114	1	1.3302572	1	4.5148125		2.7211032	1.9831278
205	1.4886953	1.2672742	2.0087167	2.5289689	2.1082439		2.9724431	1.3731061
206	2.4844585	2.1704708	1.3819435	2.355821	2.3426746		1	2.5983333
207	1.1729875	1	1.2075731	3.2582354	2.6850905		2.031532	1.5574827
208	2.6792684	1	1	1	1000		1	1000
209	0.1715961	0.3191995	0.2107102	0.3568207	0.2781458		0.3041694	0.2821679
210	0.8801868	0.6391738	0.7405989	0.6413957	0.8241074		0.6726425	0.3575414
211	1	1.6544516	1.6645034	3.5827354	3.4580731		3.8225768	3.2918923
212	1.2012492	3.3128873	2.2947676	1.4495682	1.8331131		1.2546727	0.8448398
213	0.8670579	0.4899004	0.7061667	0.6065008	0.7745465		0.5322434	0.2315091
214	2.2160433	1.1737677	1	1.4062135	1.8697586		1.43919	2.1173051
215	2.3584907	2.5417052	1.7143291	4.7170003	3.670771		2.4242215	2.9973888
216	1	0.4559115	0.8231169	0.5857675	1		0.5337609	0.2493204
217	1	3.837865	3.1828646	3.3558471	2.9157297		1.2375877	4.2489449
218	2.3011131	3.1682868	1	1.9554893	1.8708645		1	1.2215396
219	2.019569	3.8063908	1	1.7734814	1.9512325		1.9426534	1.4138379
220	1.3398094	1.8373449	1.614374	2.8036921	1.9883081		1	3.208144
221	1	0.4787102	0.7414879	0.6041465	0.786914		0.5112097	0.2597626
222	0.8485963	0.5142547	0.7469036	0.6273265	0.7972915		0.5635086	0.2792997
223	1	0.5043064	0.7471924	0.6051423	0.7425523		0.4905552	0.2506427
224	0.8337701	0.4610763	0.7359129	0.5939242	0.7159873		0.5165521	0.3394507
225	1	0.4979919	0.8324172	0.7308174	0.7485752		0.5157106	0.4110869
226	1.7307212	1	1.7174153	3.6575359	2.9453486		1	2.5845946
227	1.6027168	1.5508554	1	1.9287981	2.2101574		1	2.5962474
228	1.1152157	2.7167469	1.3581117	1	1.4401541		1	1
229	3.7054613	1	1	1	1.8015535		1	1
230	2.2105464	1.3594033	1	1.4128159	1.8029538		1	2.6028963
231	1	0.4955386	0.814286	0.6049277	0.8756692		0.5676926	0.283962
232	1	1	2.3797616	1	1		1	1000
233	1	1	1	1000	1		1	1
234	1000	1	1	1000	1		1	1000
235	0.2928664	1	0.3131395	0.1827727	0.1604832		0.1003212	0.2511394
236	1.1384733	2.956766	1.4599793	2.5620703	3.2508084		3.9983399	1.6323968
237	1	2.700644	1	1	1		4.8799346	1.3472987
238	0.4052563	0.3056974	0.2305804	0.1979655	0.1740562		0.2053678	0.1420245
239	0.9077258	0.4436944	0.7011867	0.5677418	0.8514856		0.5493727	0.2395798
240	0.23043	0.3836666	0.3813196	0.2599515	0.8530722		0.7146938	0.69377
241	0.3629896	0.4365376	0.4414865	0.3774501	1		0.7141684	0.7966457
242	2.4134373	1.1588822	2.5078046	4.4169609	9.9395523		1.816935	2.7278421
243	1.1365681	2.6301145	1.2706024	2.3146042	2.0010584		1.4725502	2.1105568
244	1.2525933	1	1.4862365	2.7182742	2.2697764		3.3912256	1.9308425
245	1.2218131	1.1162177	2.7071498	3.398806	1.5638539		0.8377231	3.4885611

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
246	1	2.4051592	1	1	1		1.5024692	1.8394954
247	1.9511539	2.4502216	1	2.180552	2.8008374		2.4033355	3.2316109
248	2.8197229	6.7274033	1	1	1		1.6632801	1
249	0.2499208	0.7329508	0.6679522	0.8328967	0.6765262		0.2601565	0.4192755
250	1	3.0563841	1.4694584	2.5828546	2.8796526		4.3385128	1
251	1	3.0050564	1.3698119	2.0538395	1.5462017		0.7707268	5.3245613
252	1.6182875	1	3.1955502	6.4605073	1		4.2001047	4.1906874
253	1.5151613	1	1	1.9230939	1		1.8028669	4.3666768
254	1	0.4495909	0.737425	0.6023302	0.815292		0.495782	0.2704406
255	1	1	0.5918894	1	0.4114616		0.4368414	1
256	1	1	1	1000	1		1000	1000
257	1	0.440528	0.6936618	0.5650327	0.8204733		0.5147496	0.2393314
258	1	2.3379438	1.9337281	3.8782636	2.4752536		1.8278385	3.7750313
259	2.0732236	1	2.4678144	2.7088698	1		3.4867028	5.426183
260	0.1830497	1	0.2975794	0.5216526	0.2212821		0.1504853	0.5034211
261	1	2.2201692	1.2638481	2.4193292	2.4626395		2.7950697	1.4845801
262	1	1	1	1000	1		1	1000
263	2.5363939	2.7040257	5.3225319	2.0844705	1		1	2.2529972
264	4.6278272	1	1.933232	4.2280937	1		1	3.3531856
265	0.7820208	0.4958645	0.6480066	0.5982725	0.8339842		0.4620291	0.2920265
266	0.001	1	0.04573	0.0156661	0.012556		0.0113324	0.0381306
267	1.4131519	2.7183517	1.2715027	2.3747043	2.8120426		3.9136411	1.6718746
268	1.7335025	1.9766823	1.5303576	3.3935449	1.9676188		5.8241452	4.9774373
269	3.1048586	3.9044717	2.3426287	4.1579844	2.6886178		4.8580571	6.1287003
270	1.6801436	2.0225932	1.3639614	2.3478916	2.3385806		1	2.2993847
271	1	0.4581742	0.790616	0.5799106	0.7786111		0.5426222	0.2249409
272	1	0.5533468	0.8106512	0.665517	0.7279564		0.5644682	0.3811945
273	0.806899	1.6450075	1	1	1		1	1.4232619
274	0.5026338	1	0.3970699	0.5701845	1		0.5570521	1
275	1	0.5341082	0.7374611	0.6234223	1		0.5413866	0.2914118
276	0.001	1	3.5639595	5.9357503	1		1	0.3249236
277	3.7000301	1	2.0706941	3.9646298	1		1	1000
278	1.3548546	1	1.4636937	1.8345394	1		1	2.8321333
279	1.9298345	2.5334293	1.7457796	2.9292401	2.6579124		2.0737746	2.3847286
280	0.2104573	0.5146728	1.3159264	2.6430865	0.6106463		0.1717825	1.2530709
281	1	0.4937556	0.7191924	0.5951403	1		0.4797872	0.2846698
282	0.7141971	1.9205895	1.1646534	3.3457506	2.1893659		1.6101441	2.1686529
283	1.3394918	1	2.5808866	3.7344354	1		0.4318364	2.1277907
284	0.8673645	1.1965172	2.222889	1.8965704	1.9367327		1.3712792	4.8655908
285	0.2060664	0.4327194	0.3179052	0.4170119	0.4169671		0.150801	0.6334638
286	1	4.102927	1	1.8147973	1.5351837		2.0779808	2.2923757
287	1	1	1	2.2663392	2.1344991		1	1
288	1.600921	1	1.4001199	4.1485426	1		3.6023913	2.8972322
289	1.1971539	2.6334839	1.2460041	2.2089891	2.1815413		2.2296852	1.6562486
290	1.2647696	2.3413869	1.137822	2.1088178	2.4439576		1.8267126	1.6025417
291	1.9108473	2.3065249	1.2728986	2.2834021	2.4434427		2.5171359	1
292	1.3212164	1	1.4833114	3.6300239	1		1	3.0491898
293	1	0.2074382	0.7157637	0.6576568	0.5311564		0.4790896	0.7097313
294	2.0239599	1.9815704	1	1.8296837	1		1	1

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
295	1.3626399	2.3276635	1.4260558	3.0663141	2.5730959		1	2.954453
296	1	0.5263488	0.7095507	0.6319558	1		0.5071836	0.293535
297	0.8986922	0.4930731	0.7279028	0.6088009	0.8353056	0.5624758	0.5416625	0.220949
298	2.3162678	1.9775923	1.6563095	2.0630615	1.324101	1.2795378	2.0825118	4.2614047
299	1	0.4081807	0.6960642	0.6662682	1	0.4871285	0.6409733	0.2073655
300	0.7303482	2.1351846	1.6277278	1	1	2.6949833	1	4.0240289
301	0.1662197	0.1301638	1	1	1	1.1478659	0.5008676	0.276028
302	1	1.935721	1.7178459	3.183349	2.3908883	2.2884072	2.6800763	3.5357309
303	0.2204217	1	0.447585	1	0.8294611	0.5598273	0.6029297	1.5844572
304	0.3409693	5.8830171	2.3260718	0.6706415	0.3870858	0.6351475	0.2257882	0.8832312
305	1	1.5320041	2.0643983	2.9026459	2.2988703	3.6087525	1	1.7450193
306	0.3836959	0.2494632	0.565496	0.2471445	1	1.1378357	0.1456409	0.1987113
307	2.5254221	3.0262933	1	3.1683642	3.3128686	2.5901323	3.7535708	4.9786789
308	1	0.258606	1	0.2271142	1	0.4941777	1	1
309	0.2640243	3.0587513	0.3109882	0.2120772	0.2502861	0.2982521	0.1226284	0.3133019
310	0.3158721	1	1.4162746	0.819903	1.4083262	3.7861297	0.3087104	5.1106399
311	1	1.8124927	1	2.2030274	1	1.7047143	1	0.2866874
312	1	1.8366194	1	2.4075631	2.6778575	2.146204	1.8982181	2.2113528
313	1.4562179	2.1590408	1	1	1	1.901093	1	1.2323543
314	2.3927529	0.3916658	1	0.3861751	0.6719727	1.316261	1	0.7549827
315	0.3821738	0.2471637	0.1638835	0.1441627	0.1406735	0.4723221	0.2587303	0.0642112
316	1.1208111	1.2614884	0.665528	3.4481393	2.4233608	1.484243	2.1143148	1.9515095
317	1.6017751	1.8095414	1	3.1036462	1.9352246	1.4644703	4.6650057	2.3114845
318	1	0.0631882	1	1	1	3.9437998	1	2.0635858
319	1	1.4956911	1	1.7922464	1.9259052	1.9642511	1.4432817	1.7448641
320	0.1016261	0.2461984	0.1771184	0.5383869	0.0818073	0.0240783	0.0714113	0.2344891
321	1	0.7595554	0.7164441	0.6632505	1	0.6584157	1	0.3791582
322	1	1.8673004	1.4486699	2.5994798	1.9248397	1.2888857	1.9928068	1.854575
323	0.9345312	0.494807	0.7176242	0.6273573	1	0.5500417	0.6695573	0.2543118
324	0.252286	0.0269366	0.3869899	1	1	1.1376464	1	0.7164485
325	1	0.4761216	1	0.4179364	0.4713595	0.5298428	0.4380231	0.4274206
326	1.1009918	0.5888545	0.7768438	0.5613455	1	0.5272429	0.8362684	0.2341538
327	1	1.6663981	1	7.4402642	5.1480954	1.3415749	2.3987316	3.3927441
328	0.5927188	0.3936026	0.3449182	0.5759797	0.607554	2.5205385	1	1.1598738
329	1	0.4585677	0.6704001	0.4944674	0.5607001	0.4485082	0.4724378	0.3316595
330	1	1.4173899	1	1.7539418	1.644806	2.502947	1	1
331	4.030827	4.4685416	1	2.9628328	2.9861737	1.2875052	4.9268693	2.960655
332	1	1.4645858	1	3.1168838	3.2239995	1.5685728	1.5049973	1.3581319
333	1	1.7753188	1	2.6776746	2.534023	1.2952962	3.5938902	2.4366165
334	0.883636	0.5418676	0.6831428	0.5416019	0.8410095	0.4638082	0.574148	0.2582974
335	0.6764527	0.795604	0.6682187	1	1	0.6157088	0.4499358	0.4707599
336	2.0948496	0.5419598	1.7726333	1	1	3.1845024	2.1124125	1
337	0.878172	0.5301608	0.6802203	0.632508	1	0.5493373	0.5857687	0.2536537
338	0.3008379	1	1.4667131	1	1.4095529	3.4428028	0.3097507	5.1103854
339	2.2978501	2.2530944	1.8757822	3.0894007	1.2753011	2.4407294	1.5909595	4.0337633
340	0.2084863	29.452603	1	1	1	2.3887071	1.5135675	1
341	0.5142079	2.9697332	1.4940737	1.4813592	1.7166668	0.9310868	1	1.1630337
342	2.257193	1.4365117	1	2.0960867	1.5151941	2.2099016	1.3957002	3.6339753
343	1	1	1.3909209	4.029378	6.2443293	1.6183058	1.7926005	2.0088669

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
344	0.3229896	0.6325519	0.6304914	1	0.3499585	0.2329983	0.3526173	0.7075149
345	0.6550019	0.2483319	1	0.4543387	0.400023	0.6732772	1	0.6262313
346	0.8174548	0.545526	0.6949795	0.5694483	0.7980138	0.4404019	0.5767749	0.3042566
347	0.8983527	0.4568399	0.6372619	0.6224867	0.8075713	0.5092002	0.5965593	0.2301309
348	1.5490841	1	1.3964361	3.3483786	2.829422	2.4774362	2.5843242	2.3655701
349	0.7592231	1.0962474	1	5.7567293	6.498581	1.4597991	3.9082123	1.9219959
350	0.377323	0.6824162	1	0.595741	0.4485304	0.9795398	0.6502487	1.162326
351	3.6631289	2.7452452	1	2.3541586	1.7227868	1.6459947	2.8853809	2.963132
352	1	1.6440852	1	4.2723522	3.8058852	1.0326881	3.2935066	2.5124866
353	1.4486734	1.7259341	1	1.4940214	2.0692499	1.790758	2.4632193	2.0600285
354	0.3129156	0.3117783	0.7287826	1	0.3904282	1.0313055	0.3708658	1.2957832
355	1	0.5906744	1	1	0.2258557	0.125463	0.2159745	1
356	1	7.1848212	1	1	1	1.7424339	4.4717566	2.3327289
357	0.5638	0.5378711	0.6784202	0.3221384	0.3309843	0.4237647	0.647447	0.7158463
358	0.001	3.7698994	1	1	1	5.2388183	0.7172866	1
359	0.8865816	0.495016	0.729919	0.5811359	1	0.4212968	0.7008184	0.2620968
360	0.3078568	0.4140218	0.6159351	0.4431988	0.215919	0.2106703	0.6296989	0.8514702
361	1	0.3525244	0.7223702	0.3005117	0.3432859	2.2828193	0.6091741	1
362	1	4.8727934	1	1000	1	4.9585787	2.4906561	2.2533822
363	1.357592	1.2887632	1	5.5369783	2.9323166	2.9841569	1.5942454	2.2432877
364	1.1943836	2.3902245	1.7104385	6.8848313	3.0752521	1.1643863	1.7813234	3.5078065
365	1000	0.1667904	1	1	1	1.7697806	1	1
366	3.1191592	2.4240105	1	2.0376409	1	1.3736191	3.1844365	4.1337522
367	5.8729745	2.1379637	1.4163544	0.3859672	0.744945	2.150804	2.9187094	0.6442847
368	0.7068168	2.8971133	1	1	1	3.3956689	2.8235007	1.7781524
369	0.1522257	5.5578535	1	1.6826333	2.2046955	0.6424406	1	0.3754519
370	1	0.3794057	0.484389	0.5255722	0.4668188	0.7279759	0.3657741	0.5225175
371	1	1.8621787	1	3.1665337	2.1129169	1.3941736	1.8188117	0.6383372
372	1	0.6128459	0.0696741	0.0928352	2.8232232	11.776624	1	0.0982941
373	0.7826231	1.1352658	2.3406644	2.0770226	2.2319917	2.495068	1.6520642	3.8981084
374	3.8095183	1.6719563	1	2.4928994	2.8677851	3.5476546	2.1859184	2.1210549
375	1.1617529	1.8730124	1	1.1488807	2.0942849	1.9620314	1	1
376	1	1.6366516	0.5727502	1.8738295	2.6151605	1.3864511	2.7284817	1
377	0.426083	0.7045201	2.0317307	0.5943797	0.4640358	0.4421822	0.1002138	0.6315703
378	1	0.5994053	0.4711236	0.4391882	0.5855454	0.395548	0.2786183	0.5608281
379	0.8177504	0.5346185	0.6741058	0.6436122	0.8365005	0.6386147	0.5933806	0.2408773
380	0.4991518	0.4805486	1	0.505384	0.3776166	0.6948682	0.4064178	1
381	1	1	0.651671	0.6325706	0.7839	0.5365168	0.7114453	0.2745753
382	1	2.1012879	1	3.0601996	2.1397499	2.679141	6.6922333	1
383	0.5752427	0.5758934	0.6121828	0.4344019	0.7429566	0.446303	0.4197727	1
384	1.2300694	1.2912902	1.9196417	3.1829529	3.1090522	2.4974037	1.4919274	2.7307724
385	2.1115154	2.8340665	1	5.1859587	4.1349341	2.2378887	5.1441121	2.0782681
386	0.8924069	1	0.6817278	0.664422	1	0.5214866	0.6772994	0.2547712
387	0.9333596	0.3858616	0.6442675	0.5387839	0.7677951	0.5291687	0.576474	0.1775166
388	1	0.3662786	1	1	1	0.9621435	0.4472537	0.6555649
389	1	2.2612043	1	2.5084653	2.4325097	1.9017541	1	2.3223923
390	0.2222723	0.3643726	0.7912551	0.2824124	0.2692477	0.389683	0.3573242	0.5851393
391	1	0.7343465	1	0.8211402	0.3711474	0.4707163	0.2550692	1
392	2.03007	2.1883261	1	3.4444245	2.8936629	2.4016091	2.0171328	3.1483716

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
393	1	0.5763607	1	0.4465804	0.4331147	0.3984311	1	1
394	0.9011778	0.4830756	0.6298065	0.6375797	0.7906064	0.568303	0.6718485	0.2185589
395	2.3747403	1.4409263	1.4990364	2.3297135	1.2628726	1.6361463	2.5366257	1.9202017
396	1	1	1	1	2.1053735	7.6399586	1	1
397	1	1.6528038	1.6568557	1.9359517	2.4273338	1.3903989	2.5326354	1.791562
398	0.792051	1.3286116	1	3.3786026	2.4652569	1.578966	2.2839091	1.8270418
399	1	0.6035432	1	1	0.1393431	0.2939551	0.292603	0.4410413
400	1	0.1403703	0.2971746	1	0.1270799	0.4015127	0.1941342	1
401	0.1086669	1.3412775	0.5345181	1	0.4906664	0.3390616	0.2093086	0.4361245
402	0.001	0.5572511	1	0.001	1	0.3588142	0.1806555	1
403	1	0.6025656	1	0.823131	0.1952623	0.1836036	1	0.4432825
404	0.1801589	0.4202932	0.4189432	0.2026507	0.2661521	0.7726577	0.2617554	0.5556505
405	0.0972133	0.076678	0.5170591	0.5250472	0.3390146	0.3803945	0.1774524	0.4053319
406	3.3341388	1.9959271	2.0437414	6.4697677	2.5947798	1.5035229	5.2174634	4.5252398
407	0.0989434	0.5877477	0.452017	0.4008895	0.2373227	0.2826945	0.1053763	0.4284946
408	1.4094727	2.0821599	1.4294367	2.0802322	2.0067135	2.2524513	1.7879364	2.0109404
409	0.001	0.5546688	1	1	1	0.1747193	0.1742694	1
410	2.2359064	1.9701956	4.0110192	8.1438595	3.5836237	1.4047555	5.5017188	4.7671415
411	0.4882128	2.1361315	0.54233	0.2998693	0.3806531	0.3864189	0.2516877	0.650586
412	0.7911969	0.4183872	0.6375314	0.487766	0.6321648	0.5900032	0.5025024	0.2422679
413	0.6414678	0.4469654	1.6127159	5.2776288	2.0644003	2.8088978	1.3721808	2.6080615
414	0.179491	0.7915768	0.0498214	0.0654134	1.8248926	15.062144	0.7460328	0.1895481
415	0.0705722	0.5423226	0.0031644	0.0214556	1.904505	14.863608	0.7299893	0.0535642
416	3.1268022	3.1109029	1.5595872	3.3202702	3.2723633	1.5494417	2.1379801	2.1325896
417	1.1944274	1.8092893	1.4033003	3.3663001	1.4435599	1.5969936	3.643857	3.2336782
418	1	1	1	1	1	2.3120609	2.0434671	1
419	1	1.4224931	1	2.6893118	1.944852	2.5198417	2.6024665	4.0208006
420	3.2206868	0.0550783	0.5820793	1.2175536	0.1057936	2.9331033	6.7073687	1.3326225
421	1	0.8289965	1	1	0.2399504	0.3613282	1	1
422	0.2865702	0.3517128	0.4408822	1	0.3715081	0.601267	1	1
423	1	1.1553837	1	2.7167343	1.8788456	1.6960969	1.4571659	1.8418793
424	0.4290942	0.3065275	0.4788371	0.4606531	0.8582381	0.6442265	0.4764243	0.6416958
425	1.6829358	1.6487335	2.0762273	2.0303621	1	1.7681785	1	2.2370484
426	0.451651	0.1108514	0.3806974	1	1	0.4832076	0.4731996	1
427	2.676279	2.6065596	1	3.7974584	2.1339754	2.1013849	1.8261798	2.6102034
428	1	0.5227335	0.651733	0.5707062	0.7715066	0.496148	0.6692074	0.234247
429	1.3364806	1.5601274	1.3533076	2.467487	1.37393	2.2034909	2.2133078	4.9388721
430	0.4562828	2.3558851	1	1.5536141	3.4291039	2.0317122	1.7754302	1
431	0.3062581	0.3155904	1	1	1	1.1859107	0.2114132	0.3106634
432	0.0400986	0.0131271	0.2138703	0.2506753	0.0258824	0.3261083	0.0222292	0.3589568
433	1.6265438	1.9354382	1	4.3689258	2.4141129	1.2869295	2.5859846	1.8093733
434	1	0.4178707	0.7029853	0.5280062	0.6726092	0.4996884	0.5825229	0.2344829
435	1	1000	1000	1	1000	1.3366403	1000	1
436	1	0.8352988	0.5741902	1	0.2638062	1.0553252	1	0.7876749
437	0.7876381	0.486611	0.6883464	0.5493846	0.6284879	1.1081411	0.5167748	0.279039
438	0.4823436	3.8103873	1	1	3.1211844	2.4911471	2.1312684	1
439	2.0067685	2.9694566	1	5.0180789	3.2608625	1.2986025	3.1330889	3.3649563
440	1.2799024	2.0473286	1	1.6946365	1.6222591	1.5203459	2.3377284	1.7277482
441	1.2456511	1.457515	1.687385	2.2089255	1	1.9057634	4.2788826	3.4617046

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
442	0.2079388	4.1400701	1	0.4863192	1	0.5239747	0.5996765	1
443	0.8432637	0.5570175	0.718185	0.571484	0.7899961	0.3770429	0.6562312	0.3203606
444	1	0.4970942	0.6687701	0.6298291	0.7718232	0.5870866	0.7438072	0.2595949
445	1	2.2147462	1.3249253	1	1	1.3659002	1	1.4447298
446	0.2782701	0.2978274	0.5111051	0.8458052	0.7010347	0.9347789	0.4332542	0.5670922
447	3.015573	2.4978971	1.8471864	1	1	1.6542594	2.4782779	2.3072878
448	1.4412384	2.1654906	1	5.5857498	2.1540568	1.1019896	2.1736076	2.8448166
449	0.8556152	1.8220967	1	4.0751736	2.3955799	1.2917473	3.2898531	1.7148662
450	0.2587355	0.4770931	0.4880622	1.5021818	1	0.7368721	0.3691892	0.367313
451	1.3010138	1.6976202	1	3.3717733	1	0.9749473	2.0458412	2.1055034
452	1	1.3108609	1.3102528	1	1	0.8734501	1.5820261	3.4839671
453	0.3013306	0.5068765	0.4995397	0.5998768	0.4283636	0.5698278	0.4145962	0.7620414
454	1	1.2877179	1	1	1	1.785438	3.2386117	1.4828232
455	0.8771975	0.5098708	0.6855352	0.6085547	0.78768	0.5456242	0.68081	0.2630219
456	0.2221299	0.7269683	1	0.446791	0.3667115	0.6469662	0.4929628	1
457	1	0.5559415	0.5063289	1	0.4988301	0.5269559	0.4282134	0.3172627
458	1	2.8686149	1	1	2.1859958	2.1425046	2.9688411	1
459	2.1964648	2.1936446	1.8837524	3.548439	2.1543903	1.3738951	1	2.7040462
460	1	0.6606936	1000	1	1000	3.60103	38.647877	1
461	0.8814679	0.4865987	0.7314349	0.5805336	0.8253586	0.4862169	0.6533929	0.2672993
462	1.3709947	0.4029053	1	1	1.5718017	4.1321177	2.6455986	1
463	2.1984906	1.9897356	1.5414376	2.9499613	3.3279199	1.9329756	1.8543045	1.2124695
464	1.6559881	1.406132	1.0963278	1.7145159	1.9774035	2.5631834	1.6561429	1.7956781
465	1	1.8654559	1	1	1	2.5507506	1.9311356	1
466	0.1827431	0.1094003	1	1	1	2.0930612	0.4930965	0.3916553
467	1	5.9987073	1.621564	2.8073849	1	1.9309622	2.9877309	4.483285
468	1.4605431	2.1216394	1	4.5138799	2.8412055	1.2142413	1.8824282	1.8619752
469	2.1587643	1	1	1.9652557	1.755248	1.24208	2.291898	2.6688644
470	0.8352155	0.4886707	0.6648704	0.5747717	0.697689	0.6044935	0.6412213	0.2507545
471	1	0.1405486	0.3678469	0.2451327	0.17866	0.580149	0.1870965	0.3285057
472	0.9143067	0.405918	0.6727099	0.5204814	0.6816489	0.5296222	0.6008018	0.1910505
473	1	1.9124919	1	1.9552402	2.9341713	1.8761799	3.0033368	1.7803935
474	0.4619221	0.4719899	0.7044637	1.2553818	1	0.8760315	0.4116703	1.3631792
475	3.6602272	2.9936202	1	1	1	1.4466511	3.3934721	3.5023619
476	1.3635488	2.1668371	1	2.1160874	1.6066032	1.478685	2.6602117	1.7170887
477	1	2.2849437	1	2.3744103	1	1.445122	2.6950739	2.9986925
478	0.3209091	9.9754731	0.1516546	1	1	2.687633	1	1.3304993
479	2.3849019	2.175488	1	2.2459079	1.4685408	0.9305007	2.8315882	3.4021868
480	1	0.1136981	1	0.1133242	1	0.3170343	0.2424357	1
481	0.3288149	0.1600886	0.7146235	1	1	0.6736753	1	1
482	1.5938583	8.2193438	3.9969798	2.1320805	2.5242792	1.113715	2.4532459	2.4809926
483	0.8597433	1	0.6718583	0.5887835	0.752054	0.5643098	0.6987934	0.2380712
484	0.3011335	0.6610317	0.5176166	0.4744856	0.4108276	0.6182808	0.3968631	1
485	1	2.0784032	1	3.5301548	1	2.0853995	1.9278321	3.1260222
486	0.1034986	0.0983576	0.1121737	0.0812822	0.060551	0.1548744	0.0474864	0.2654306
487	2.0760267	1.685563	1.937556	1.7095881	1	1.1170132	5.1677003	1.7153194
488	0.8512243	0.4834076	0.7091634	0.6834424	0.7366411	0.5710057	0.6908006	0.2205393
489	1.2093193	2.7108935	1.8341945	4.5513639	2.970241	2.8425491	2.6854408	5.0957465
490	2.9876836	1.9397421	1	1	1.5982637	1.4449502	3.1111199	3.6555239

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
491	0.30628	0.3953979	0.6351673	0.7861265	0.43153	0.6365817	0.2899963	1
492	1.0331242	2.1877112	1.4020212	3.6603275	2.895951	2.3980288	2.2882682	1.9332078
493	0.2445444	0.6620155	0.7123136	0.6781391	0.3948815	0.9670603	0.6585551	1.9943149
494	1	2.9607564	1	1	1	2.306357	1.9961247	1.6660017
495	0.1453491	1	0.1412267	1	0.100256	0.0512912	0.1172464	0.2550009
496	0.4165128	1.6569417	0.6337893	0.7397798	0.4812698	0.7799801	0.6962979	0.6949993
497	0.6483553	0.263322	0.3850798	1	1	0.7878226	0.4080128	0.4241241
498	1	2.6797268	1	1	1	0.8129234	1.9625454	2.4674712
499	1.5524786	1.5983096	1	2.2658707	1	1.155603	2.3922142	2.0700733
500	1	3.2261197	1.7554165	1	1	0.5386224	0.6835602	2.8789554
501	0.4899867	2.2663875	0.7927783	1.7802293	1	1.9679619	1.6144807	2.4582023
502	0.1352424	0.299137	1	0.468123	0.2073616	0.8100937	0.1833333	1.1631269
503	1.2273866	2.4187966	1.8941204	1	1.8009008	1.2204736	2.5806551	4.3770196
504	2.304639	2.7544557	1.7843423	3.3832207	2.2855061	1.4487588	1.6381837	2.9160244
505	0.4438547	0.0289226	0.3993633	1	0.3369005	1.377546	1	0.3999742
506	1.3715641	1	1	2.5473556	1	2.1503812	1	1.9254352
507	1	2.5292791	2.2122535	2.228557	1.2866907	1.1815041	2.4434588	4.2424201
508	1	2.3951495	2.0842082	1	1	1.6457718	3.1006771	2.3077906
509	1	4.2958609	1	1	1	1.1166825	2.1346594	1
510	1	1.3915108	0.3575033	1	1	0.4993303	0.2190618	0.510964
511	1	2.7571733	5.2034694	11.905577	11.780397	11.903503	9.7035654	10.836634
512	0.1155435	0.4323812	1	0.3732256	1	0.9565315	0.8250282	1
513	1	0.5522217	0.6389637	0.6442823	1	0.4327836	0.6738732	0.2926535
514	2.40805	2.7252872	2.6876489	5.9578729	2.2289175	2.0266678	8.1759438	5.4341853
515	1	0.7112712	1.3193357	2.6253616	1.5367432	1.6663308	2.3701777	1.4214305
516	1	2.0956251	1	1	2.162424	0.7164932	3.3249899	2.6673745
517	0.067342	0.444629	0.1817694	0.173544	0.3037028	0.9115107	0.2040854	0.2822982
518	0.4765292	2.3743245	1	1	5.0044448	4.4388153	3.415688	4.9359046
519	0.4241668	1	0.6823759	1	0.4681787	0.9190469	0.4823334	1.5823589
520	0.2207064	0.3410636	0.2259861	1	1	1.1474444	0.1996783	0.5453139
521	1	1.9035766	1.4326975	2.0493962	1	1.7291844	2.3654019	1.6801936
522	1	2.2694372	1.3703848	1.8961954	1	1.4396253	1.6508058	0.7847881
523	1.5119201	3.393113	1	1	1.7504793	1.8086128	2.0176384	2.1835464
524	1.1945697	1	0.7184178	1	1	0.5336167	1	0.2521327
525	2.0311978	2.471809	1.9962138	3.4563714	1	5.3794958	1.8059292	4.1969142
526	1.4869433	3.9594455	1.4341697	2.2589998	1	1.3996863	2.0812042	2.7020161
527	1.7787476	3.0617579	1.8527718	1.3725819	1.3536972	0.8855709	2.1341743	1.186271
528	1.1969897	3.4165511	1.8805093	1.8556128	1.3344866	1.3307212	3.6559141	3.7885713
529	0.001	0.6316419	1	0.001	1	0.9060968	1	0.2253693
530	1	1.2120729	1	0.3612728	0.2379418	0.8012812	0.3639409	1
531	2.3273491	2.7070384	1	1	1	1.8767271	4.0959951	1
532	1.424715	1	1	1	5.1461918	1.763816	2.4121834	5.6705617
533	0.1331728	0.0105631	0.1134528	0.3441875	0.3076408	0.4191512	0.1977234	0.2028522
534	2.1725612	1.864798	1.2813603	2.041979	1	1.7640721	3.9027985	1.8741991
535	1	0.6027255	1	1	0.8104966	2.0161334	3.6957175	1
536	1	0.5219218	0.6866844	0.6135423	1	0.5816143	0.6249152	0.2267785
537	0.4978159	8.4610968	1.4686852	2.1602321	4.2130414	1.8024436	2.3281661	1.7846523
538	1	3.350922	1.9298164	1	1	2.9429679	2.3648063	9.2403071
539	1.5502448	2.4379738	1.9483753	3.6226545	1	5.4567866	1.9830584	3.7274828

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
540	1	2.791691	1.5028026	2.6606833	1	1.2101574	2.3561049	2.6820692
541	2.1121833	2.8670901	1	2.1775817	2.0242845	0.9834678	3.495571	3.8633612
542	1.5098834	1.6717534	1.4606018	2.8599122	1.7809435	1.3747413	2.7697898	2.7773275
543	0.8653278	0.4700408	0.6814874	0.5820793	0.6889578	0.5234682	0.6277137	0.2267537
544	0.1369177	0.1054468	0.4669582	1	0.2324838	0.6372159	0.1551756	0.5918814
545	1.2849722	2.3422662	1	1	1.7134543	1.3083573	1.7922014	3.6899792
546	0.7301292	1.5080434	1.5686436	1	3.3994531	1.3417889	3.3558814	5.0576966
547	1.3707757	1.7655181	1.7759332	2.5907906	1	1.0757087	3.3206791	3.9677331
548	1	1.7424612	1	2.9965027	1	2.3377065	2.038514	4.3845625
549	1.2658646	1.6038678	1.8156798	2.2497272	1	1.0345341	2.9638441	3.3673775
550	1	2.075458	2.6914882	2.6469159	1	1.468284	1.9818727	1
551	0.0507638	0.5596368	0.122339	0.1192141	0.0843743	0.5516562	0.0775135	0.0871256
552	1.637428	12.520775	1000	1	2.2819835	0.7248738	2.4861506	1
553	0.6782814	0.6725233	0.2799543	0.5458749	0.3538126	0.6513815	0.47839	0.5277013
554	1	0.4339737	0.578048	0.603638	1	0.5519513	0.5060812	0.1941173
555	1	2.4930029	0.0239998	0.086991	9.2033865		2.1621812	0.0862192
556	1	2.9655031	0.5785805	2.6045976	1		1	1.3486024
557	0.5842873	0.0991016	0.4826797	0.8139108	0.4511066		1	0.5135715
558	1	0.6626795	1	1.6721098	1		2.2273936	2.5496488
559	1	1.1967877	1	2.2478818	1.8873045		2.0175661	1
560	1	1	1	1.7242246	1.5148643		1	1
561	1.3581943	1.7850888	1.338431	1.3384403	1.4622149		2.6333585	3.212738
562	0.5641395	0.4838257	1.4135651	3.097007	1.475422		1	3.882203
563	1	0.4481091	0.7078181	0.5218229	0.782877		0.5119436	0.2325335
564	0.7649828	2.1241542	1	1.3801861	1.2725492		2.6739716	2.404067
565	1	0.4971495	0.6904716	0.5885396	0.8039141		0.5411683	0.297111
566	1.2555389	2.8262702	1.4350162	2.7592306	2.7102943		1.928888	2.0130077
567	0.788755	2.16613	4.3963747	2.870182	6.8329542		1.63008	1
568	1	0.507356	0.7527597	0.6704247	0.7465274		0.5691031	0.2905675
569	1.395424	0.7906729	1	0.415589	0.7270209		0.361341	1
570	0.3830279	0.3489952	0.4277795	0.2933204	0.7503187		0.2785797	0.1296578
571	0.8277258	0.4874042	1	0.4985605	0.6776659		0.5065225	0.2782691
572	1.2611233	2.7683329	1	2.3490416	2.4031912		2.6968797	0.9298484
573	2.0846443	2.7706877	1	2.3441617	2.0869989		2.438489	2.0761759
574	1	0.3064721	0.4908595	0.499141	0.5168591		0.784723	2.2756261
575	1	0.5462084	1	0.723902	1		0.6096552	0.3147111
576	0.879705	0.4852091	0.7291986	0.6244014	0.7863893		0.5384276	0.3613904
577	0.4717222	1.8435918	1	0.2467495	0.7616353		1	1
578	1.4750079	1.7043221	1.9248385	2.0763481	1.54476		1	1
579	0.843844	0.4391077	0.7264994	0.5626999	0.7917578		0.5492923	0.2479794
580	0.5267784	0.1599902	0.8016577	0.5871795	0.6170411		0.508465	0.6497168
581	1.4011398	2.0131306	1.3661123	4.9719073	2.9989142		2.2507931	1.7633397
582	1.7023829	1.5078712	1.4604603	2.5845946	2.0428254		1.4040816	2.0342149
583	3.4082259	2.1307823	1.5242603	3.4847834	2.4812553		1.630882	2.3830275
584	1.7931357	2.9775172	1.3895362	2.6640088	1.5807998		1.2207766	2.3902352
585	0.7916349	1.8203628	1.6067678	2.895417	1.9526013		1.5439666	3.3380873
586	1.4304199	1.3909083	1	1.6368327	1.3981115		1.9581125	1
587	0.374717	0.3722365	1	0.4423709	0.505494		0.4378665	0.4577041
588	1	0.2668696	0.8155195	0.4186524	0.6920273		1	0.7144122

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
589	0.4475777	0.9211503	0.2420343	0.3894147	1.5348451		1	0.2998426
590	1	0.5319009	1	0.4986317	0.7952414		0.5895439	0.2601288
591	1	0.6620278	1	0.477334	0.6582304		0.514632	0.3039089
592	1	0.3905406	0.7547271	0.5031339	0.7834852		0.4983295	0.2339055
593	0.7728996	0.3423856	1.4857677	1.377337	1.1331879		0.6285539	2.4006525
594	0.3999565	0.6510527	0.7730826	0.4793708	0.5244591		0.5551587	0.7736631
595	1.4054541	2.1969156	1.4441176	1.6681474	1.6134948		2.0091494	2.4861391
596	0.8453332	0.5772215	1	0.5219933	0.84218		0.6269734	0.44106
597	1	1	1	1	1000		1	1
598	1	3.277392	1	1.6253563	2.2378057		2.637179	1
599	1	1	1	1	1.7926889		3.4897259	1
600	1	3.306745	1	4.3432074	32.932705		1	1.9434886
601	0.6880049	0.1902962	0.509526	0.4422256	0.3070205		0.2562873	0.4591258
602	1.4748327	1.5266549	1	1.9095024	1.5196944		2.7359004	3.0886117
603	1.2715476	1.341505	1	2.1217045	1		1.7264723	2.0640327
604	1	0.50106	1	2.3519217	2.9205022		1	1
605	1	0.585442	0.7495182	1	0.6540789		0.6143144	0.2978373
606	1.286111	2.0664874	1.4465845	3.3920448	2.658928		1.4550963	1.6610475
607	1.34339	2.0483247	1.8136699	2.2267461	1.5450344		2.3576822	2.7723485
608	0.8137975	2.4963046	1	1.3306415	1		3.1343088	1.9011053
609	1	0.5123794	1	0.5103352	0.5261842		1	0.4856968
610	0.6557574	2.4877398	1	1	0.7669996		0.4094507	1
611	0.6034716	0.5510412	1	1	0.4156843		0.285077	1
612	1	0.4484841	0.7486992	0.5781192	0.803877		0.5800583	0.2416409
613	0.8999733	0.4132102	0.6755863	0.5284862	0.6621702		0.5006495	0.2290259
614	0.6665102	0.4504394	0.7175354	0.4836706	0.6694515		0.5008053	0.261805
615	1	0.5066182	0.6729261	0.483436	1		0.6332798	0.3514325
616	1.3754404	1.1557342	1.247035	1.8311246	1.5353869		1.2694272	2.2687226
617	0.0584068	0.2912362	0.4001691	2.0269295	1		0.1974152	1
618	0.0584616	0.2806484	0.3812713	1.9872949	1		0.18399	1
619	0.3787575	0.4785933	1.3646776	0.4914965	0.705255		0.4242766	0.5913475
620	0.6784675	1.350365	0.6633256	1	1		0.4856424	0.5319477
621	0.001	0.001	1	0.5948635	1.9944628		0.5695978	1
622	0.7686072	1	2.0170494	3.171114	2.0456479		4.3660781	2.0722027
623	2.4574779	1.331815	1	3.0830699	3.3057865		2.1942603	2.6412877
624	2.0868452	1.5912204	1	1.5055418	1		1	1
625	1	3.0524368	1	1.2871812	1		1	1
626	0.3296581	1.8970961	0.5433387	0.4189999	0.4959363		0.260231	0.3792948
627	0.6934032	0.1814792	0.6057666	0.4886015	0.3003665		0.1785766	0.4017995
628	0.7221905	0.3720336	0.6169233	0.3652209	0.2825195		0.157068	0.7524621
629	1	2.138554	1	2.223842	2.2030204		1	1.7058333
630	1.4389827	1.7509154	1	5.9188094	2.8788187		1	1
631	0.001	0.2900987	1	0.4063219	0.2238468		0.188595	1
632	0.3452836	0.5574909	1	0.4834025	0.3051625		0.28916	1
633	1.6255473	2.5205359	1	2.5346495	1.8426757		2.2039584	2.2036857
634	0.6818401	1.6929289	1	2.4194818	1.6850737		1	2.8581021
635	0.7627271	0.1856356	1	0.3637285	0.3066633		0.2819291	0.4708716
636	1.1286075	2.4596595	1.4774087	1.7649962	2.0427655		3.1770751	1.5775475
637	1.2934803	2.1451206	1	2.06723	2.1809261		1.8630101	2.5190052

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
638	0.2190749	0.6024058	1	0.5996846	0.3989223		0.407995	0.811384
639	1	1.4580622	1.4596117	2.4004081	1.3136774		3.4778795	4.4046212
640	1.1543179	3.4223184	1	1.8525216	1.594784		2.0427263	3.0991346
641	0.3947115	1	0.6227807	0.5796959	0.3850191		0.4684981	0.4949345
642	1	0.4491789	0.7129133	0.5890095	0.8117067		0.5729279	0.2860728
643	0.9176136	0.4075474	0.7877979	0.5208099	0.6959516		0.4968312	0.2311242
644	1	2.8844289	1	2.2166468	1		1.8237565	1
645	0.7302606	1	2.0128476	3.1837453	2.1786045		4.5512159	2.3871187
646	1	0.484416	0.6704419	0.509177	0.6823105		0.57085	0.2827018
647	0.8520127	0.4760233	0.7782797	0.4886731	0.6773559		0.5384482	0.3756816
648	1	3.7511896	1	2.2403996	1		1	2.6361039
649	1	3.1319246	2.326359	2.6100019	2.0595734		2.0768319	3.0576515
650	1.3252241	5.1978955	1.9519075	1.5577142	1.2687441		1	1.6474516
651	1	2.3379684	1	1.7851164	2.3722235		1	1
652	1	2.0032623	1	1.8756617	1		1	1
653	0.001	2.287981	1	1	1		1	1
654	0.2162717	0.7769864	1	0.1387815	0.575031		0.6474693	1
655	1	0.2776972	1	2.1106741	0.6586229		1	1
656	1	0.5176548	1	1	0.3114939		0.6791443	1
657	1	1	0.7905911	1	1		0.5410488	1
658	1.2651091	2.3177029	1	1.7085223	2.0741224		3.0637562	2.3089764
659	0.372954	0.6218781	0.3404343	0.1554883	0.2475359		0.192046	0.197507
660	1	2.6728405	1	1.1676042	1.5539706		1	1
661	0.6699485	1	0.7692242	0.444521	0.47802		0.4012005	1
662	1.4314163	0.46032	1	0.3884232	1		0.5367096	0.2612649
663	1	0.5682816	1	1	0.1280299		1	1
664	1.6090568	2.0214742	1	2.1374257	1.4626144		1.4319485	4.0982787
665	1.8594594	0.2236887	1	1.9917829	1		4.4073996	3.9886609
666	1	1.5471294	1	2.4878074	1.4238875		2.4485554	2.3418052
667	1	1.5957641	4.3549666	4.1975626	3.2634622		1	2.2644079
668	1.7256843	2.0848529	1.4451975	2.649841	2.2025323		1	3.4908271
669	1	1.7110547	1	2.6041556	2.824713		1	1
670	1	1	1	2.9157716	1		1	1
671	0.3559269	2.1504698	0.6895809	1.7577185	0.4056996		1	1.7546606
672	1	3.8216883	1	2.0093604	5.4543663		1	4.5441437
673	1	1	1	1.4900178	1.5121649		1	2.2614528
674	1	1.2080333	1	4.0079104	4.0810982		1	2.1598498
675	1	1	1	3.9474969	1		1	1
676	1.3516134	1.8752689	1	1	1		1.4350848	2.7158976
677	1.6075347	1.3660806	1	1	1.4073009		2.1584542	1
678	1	0.4301923	0.7759879	0.5364672	0.7302941		0.5558158	0.2371338
679	1	1.748536	1	2.3232241	1.3806906		2.531725	3.1947157
680	1	3.7097671	1	2.8316276	1.6085344		1	1
681	1	2.1713931	0.3026072	1	2.1223901		1	1
682	0.4952207	2.5576667	0.2793245	0.2638896	4.79909		1	0.2921568
683	1	2.560538	1	2.7797219	3.2714402		3.964582	4.7514658
684	1	0.2449687	0.6119343	0.2496687	0.2258886		0.6209144	1.610693
685	0.740236	1	1	0.6929098	0.8176967		0.7322756	0.6064893
686	1	0.6824162	0.5803894	0.2748202	0.2901481		0.5185438	1

Table 4

SEQ ID	Patient ID							
NO	141	156	228	264	266	267	268	278
687	1	0.1716662	1	1	0.3625805		0.1576626	1
688	0.8364857	0.6000201	0.7351664	0.6058973	0.7528025		0.5649719	0.4052077
689	0.5836851	0.1474165	1	0.3903458	0.2457387		0.4209927	1
690	0.4809421	2.8523583	1	1	2.125372		1	1
691	1	1	1	2.6967787	3.8663632		1	1
692	1.3520076	1.6431199	1	1.4812734	1.541919		3.0039772	2.6495508
693	1	0.4953111	1	0.6482503	0.8015805		0.6290662	0.4096652
694	1.4886734	1.4639894	1	1.8674449	1.9776845		2.9929678	3.7996529
695	1	2.9058933	1	1.7553461	1.3959519		1.2501632	2.4568428
696	0.123745	0.0472328	0.1340669	0.3110692	0.4349366		0.1603633	0.2593156
697	1	3.1322566	1	3.8702433	2.0698654		1	1.3844174
698	1.897138	0.8707941	1	1.7914514	1.4986498		2.043393	4.9230164
699	1	0.4317848	1	0.600473	0.7091143		0.5399703	0.279039
700	1	1.5079819	1	2.6417216	2.0939068		1	1
701	1	0.4686574	1	0.5432199	0.7400096		0.5268391	0.2776359
702	1	1.3804189	1.423766	2.6070754	2.560692		2.3622287	5.0010097
703	0.8537866	0.4863036	1	0.4873571	0.7462072		0.5256056	0.2992962
704	1	2.2805721	1	1	2.5208957		1.7369565	2.5948505
705	0.7494777	0.3449126	0.5860944	1	0.5039674		0.2299155	0.6956635
706	1	0.4417392	0.8223086	0.5598424	0.771652		0.5190358	0.2457942
707	0.792051	0.5397095	1	0.5137796	0.6336846		0.5419438	0.3104585
708	1	1	0.1714076	0.001	1		0.6831127	1
709	2.3561583	2.7371599	1.5418476	2.451014	2.6091791		2.9167454	2.5810746
710	1.7454927	1.6551217	1	3.0448986	1.692986		6.8119686	7.2378719
711	1	2.3892284	1	1	3.1342584		1	1
712	1	1	1.6906023	3.3909954	1		2.691598	1
713	1	1	1	6.0926985	2.5681579		1	4.2711702
714	1	5.7254125	1	3.0925135	2.6512289		1	1
715	1	0.4441617	0.7732809	0.5458516	0.7041132		0.615146	0.2439193
716	1	0.6820965	1	0.001	0.367624		0.1720799	1
717	1	0.4533599	0.7175969	0.5259829	0.8463489	0.4644818	0.5363009	0.2831239
718	1	0.7006097	1	1.4317705	1.185445	2.5973283	1	1
719	1	1.7058162	5.0268159	8.0863573	8.1483379	9.4318606	3.9017175	7.2283424
720	1	1.2414689	4.0305391	1	4.2201956	7.6298331	2.6246497	5.1433136
721	1	2.3498042	1	2.9814829	1	2.9528991	1	2.1596387
722	1.2452678	2.903354	1.2550716	2.5457498	4.4123268	1.7349716	2.9494166	1.9889076
723	1.5862262	2.1895988	1.8232788	1	1.6967012	1.0689178	1.9326589	1.3684748
724	1	1.494984	1.5457688	1.9018352	2.256162	1.3495199	1.55004	1.7135687
725	0.525103	0.22126	0.2067337	0.2608112	0.3569799	0.4756618	0.2041202	0.3892527
726	0.2754779	1.9446794	2.8354797	1	2.0452271	2.1620701	1.3199486	0.6191539
727	1.6114329	1.5630049	1.4293012	1.9263285	2.0048634	1.790758	3.1463847	1.8815992
728	0.2803287	0.7163437	0.7175149	0.7424642	1	0.2617241	1	0.4453746
729	0.3215989	0.7557802	0.6779503	0.6731832	0.6855438	0.4067444	0.6269036	0.4274703
730	0.1604929	2.0817172	1.3171453	0.3218452	0.4810735	0.7126652	0.2821211	0.7796043
731	0.4013471	0.5214054	1.3262076	1	1	0.8098478	0.4481965	2.0059304
732	1.5520844	1.5656426	1.2226178	2.052521	2.0854978	1.7103386	1.6061055	2.0803603
733	1.3365792	0.3588389	0.7939726	1	1	18.681689	3.1918321	1
734	1.5601545	0.8423757	1.5620762	1.7577588	1.4700299	1.563662	1.4732817	1
735	0.5148649	0.4978013	0.437842	0.6749122	0.4028226	0.5860675	0.5112747	0.4180276

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
736	1	4.5100747	2.2611698	1	1	2.3934636	1.5072114	2.4710533
737	0.5898827	0.2701652	1	0.8410861	0.594444	9.4891375	0.5299209	1.4145829
738	1.9322872	2.5287749	2.4965071	3.2398009	4.691667	1.6864733	3.2975541	4.691737
739	0.6780186	0.2093504	0.575633	0.3682055	0.239171	1.4219027	0.4298926	1.2733096
740	1	0.7584363	1.7892562	2.1442349	2.2170582	1.789264	1	1.5142117
741	1	1.6873215	1.6826383	1	2.6634059	1.623229	2.6494548	3.0561802
742	1.6871187	1.3385845	1	1.4542386	1.7375416	2.4585037	1	1.8640673
743	0.2153081	0.1674791	0.1228205	0.1370204	0.053761	0.160897	0.0645644	0.1955762
744	1	2.9000891	2.2715972	3.6369061	3.210612	1.8396705	1.3700123	4.1096707
745	2.5262871	1.6403346	1.4555806	2.8180045	2.5513971	1.6903044	2.0099377	2.7016746
746	0.0849604	0.1154935	0.0147767	0.1201439	8.8319337	20.40315	1	0.0980209
747	1.8721722	2.4114061	2.589755	1.796821	2.140869	1.6329952	1.3133342	1.9929119
748	0.7405864	0.2812633	0.4148569	0.4495395	0.2513983	0.4715381	0.4359997	0.3999742
749	0.0564139	1	0.033588	0.1864228	0.0254522	0.0445886	0.0167	0.0800048
750	0.5521603	1	0.4155156	0.1964114	0.2495913	0.4720265	0.1775492	0.3279842
751	2.5076504	1.5525893	2.6533023	2.949281	2.6269085	1.3089209	2.144163	4.1681517
752	1	0.152034	2.6292361	0.2929978	1	5.768751	0.4960483	1.3789914
753	1.9125993	1.7325867	4.1838043	5.9357503	3.2628502	1.4045391	4.1542763	4.5769043
754	1	0.4096133	0.7203059	0.5738647	1	0.4733871	0.5788963	0.2579622
755	0.0895374	0.1006387	0.0149024	0.1506893	7.9555054	12.877477	1	0.1064578
756	1	1	3.4090398	1	1	6.1727589	1	1
757	1.6942361	1.7371797	1.1873502	1.5602482	1.7247083	1.3542819	1.2982951	1.0932725
758	1.1923469	1.3822204	1.8772773	2.5632686	2.3267732	1.6939955	2.1442446	4.3499457
759	1	2.8045475	1.3331279	1.9668173	1.8803687	0.9281714	2.10712	2.6468316
760	2.5392628	2.0383703	1.3962033	2.2242288	2.6344668	1.894606	2.9156889	1
761	1	1.8517263	1	2.3136272	2.1309694	2.3589313	1	2.6214588
762	0.8139617	1.8194221	3.6119549	2.0024909	4.7280069	0.8814248	1.7019634	1.5097605
763	0.3077692	0.4951451	0.3318526	1	0.3682679	0.6265755	0.3340028	0.6164658
764	1	1	2.2930919	1.703402	1	1.2133927	2.787465	2.485003
765	1	1	3.1080478	1	3.4117869	1.4592733	1	1
766	1.2417858	1.4379443	1.4135386	1.990956	2.9397493	1.5015002	1.5445167	1.5609034
767	1.1601323	1.2503965	1.2766719	2.3470298	1.693769	1.7909046	1.4574297	1.874137
768	1.3249722	1.613398	1.2537354	1	1.9238818	1.8856242	1	1.5974385
769	1.7416164	1.4453902	1.8570174	2.3501208	2.6780636	1.6719854	1.6297499	1.5407765
770	0.6193051	0.2310731	0.4695503	0.2585648	0.2308548	0.8829046	0.225463	0.7012012
771	1	0.8157281	1.6110611	1	4.2379297	1.0695031	1	1.1531938
772	1	1.2239887	1	2.4567427	1	1.5297868	1.6993457	1.809932
773	0.7435866	0.1753984	0.7064778	0.3247301	0.2815422	0.5191476	0.2594522	0.659265
774	1	0.1713957	0.4916792	0.3426138	0.316763	0.752646	0.2554612	0.5448855
775	1	1	1.4940737	1	1	0.8878712	1	3.2045122
776	1	2.120336	1.4367944	3.2703169	3.9248057	2.3605604	2.136764	2.203605
777	1	0.551533	0.7494735	0.5800245	1	0.4386534	0.6175596	0.3297163
778	1.5738638	0.819866	1.1119857	2.3742634	2.0775902	5.1707142	1	2.0964829
779	1.2853774	1	0.7641935	1	1.7414987	1.8880979	0.5843048	1.3218327
780	0.3067399	0.1398047	0.265263	0.3028267	0.1432962	0.261302	0.1301462	0.3201185
781	2.9755182	1.4316728	1.6625207	6.9991284	2.6665698	1.6078863	2.2364995	2.7820768
782	0.1458747	1	0.0214886	0.1079651	4.7428302	10.524515	1	0.0974932
783	2.201228	1.2929257	2.9540647	4.3059172	5.6787013	0.8514283	4.7063062	4.7790426
784	1.8716685	1.4653175	1	1.6504935	1	1.3159126	2.2746893	2.9439364

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
785	0.0851575	1	0.165263	0.2766503	1	0.2814586	0.0349685	0.1433903
786	1	1.8772364	1.9425499	2.3280171	1.7525073	1.4389245	2.0346864	4.1133211
787	2.0711869	1.9640471	1.9989139	1.7899887	1	0.8550557	1	2.2799345
788	1.2984297	1	2.1402582	1.6505645	1.6813687	1.18167	3.0210489	1.6930259
789	0.1870026	0.1324142	0.0931874	0.0391534	0.0543813	0.1808897	0.0332399	0.082724
790	1.3983695	1	1.5218903	2.1899493	2.2347155	1.4751155	2.1508743	3.2032892
791	1	1.2297621	2.1231351	1.785158	1.923935	1.1730274	1.7211987	1.6320864
792	0.8732993	0.2515537	0.5086285	0.5207357	0.5015808	0.8208296	0.3987898	0.5667942
793	0.4558777	0.1839632	0.2150371	0.1843168	0.1459684	0.5429969	0.2442347	0.2839248
794	1.7212058	2.0862855	1	2.4521106	2.6485044	2.2735666	1.7939702	2.4795585
795	0.2517056	1	0.6160559	0.5694694	0.6213607	0.4762147	0.6625818	0.3481235
796	1	0.2408246	1	0.1993921	0.152937	0.7232299	0.1530925	0.6187815
797	1.1594753	1.3072271	1	1.7426687	1.9804988	1.3994356	1	2.0217426
798	1.7612496	2.8054944	3.4065744	2.3527149	2.6296881	1.3897452	1.9737505	2.6490169
799	0.7779694	1	2.9125112	1.9203024	2.4443869	2.4423644	1.5662832	5.6203561
800	1.4119255	1	1	1.4422391	2.096367	1.2773114	2.2431769	2.1484391
801	0.7755823	0.2232706	0.3923426	0.3698311	0.3473297	0.6569092	0.2217558	0.5471888
802	1.5857992	1.9264368	1.5102407	2.2081627	2.5627667	2.0012311	2.7481762	2.6394997
803	0.6721823	0.1780914	0.4872072	0.2006875	0.2031613	0.7463905	0.1131223	0.5967673
804	0.6231267	1.1446054	0.553921	0.879383	1	0.9371496	0.4518588	0.3617691
805	1.3135734	1.4100055	1.6025314	3.1889055	1.9883649	1.4426633	1.5261939	1.7694299
806	2.3653782	1.6590629	1.9256254	4.5974502	5.0878705	1.5303861	2.1124125	3.0967444
807	1	1	1	1.7759031	1.3416393	2.2483307	0.8012485	1.2910091
808	1.7358677	1.5258802	1.5049331	1.5998049	2.0355352	1.3992924	1.9580445	2.0415033
809	0.7958834	0.6376244	1.4077038	2.9148855	2.026997	2.2651388	1.5414746	4.3917144
810	1	1.4419839	1.3746589	1.8534165	1.814661	1.6456233	1.7486533	1.7761223
811	1	2.2682997	1	2.6748743	2.9180528	1.5475564	2.4210967	2.474176
812	1.3769405	1.8663105	1	2.1640704	2.2098065	1.6519859	2.4596711	2.1593531
813	1.2606306	1.4990112	1.2369855	2.7476704	2.0756691	1.2101708	1.7929998	2.0171672
814	1	2.1297063	1.308842	1.7692694	1.8536215	1.6633155	1.8830572	1.990857
815	1.163023	1.6781294	1.2561385	2.0820949	1.7832711	2.0149079	1.2814073	1.3898433
816	1	0.4065083	0.7107082	0.5780277	0.9144728	0.6439193	0.5528275	0.2513939
817	1	0.4592317	0.7006261	0.5834603	0.8863545	0.5850424	0.6147903	0.2575214
818	1	0.4403988	0.7242514	0.6125432	1	0.6693467	0.612618	0.2896673
819	0.6677695	0.3515837	0.5228631	0.4654848	0.5348635	0.7072965	0.4145322	0.4304626
820	1	0.5081	1	0.5605213	0.6705999	0.4552811	0.6743974	0.308801
821	2.3875408	1.2467074	1	2.8685725	1.7294663	2.2155865	1	2.6816471
822	1.5315423	1.4221857	1	2.5546492	1	2.1230016	1	2.1538837
823	1.2786103	1	1	3.015936	4.3176029	1.9577821	2.2896629	1.2114886
824	0.2779088	0.1518865	1	1	0.2149658	1.6544096	0.2272304	1
825	0.4922971	0.3849701	0.2840588	0.4548747	0.3354971	0.5892785	0.2566924	0.4605412
826	1.7522926	1.1188862	1.6781424	4.8038217	3.9625765	1.5430373	2.177808	2.7137992
827	1	0.4958706	0.7213055	0.5577062	1	0.5172964	0.5943946	0.2956582
828	0.3679718	0.3712097	0.258771	0.4055637	0.4415154	0.4434335	0.3732684	0.3794624
829	1.2939402	1.9981467	1	2.2005634	2.8503996	1.5653852	3.3717451	1.5582215
830	0.2455299	0.0722265	0.053719	0.0533398	0.0490913	0.7457849	0.0847053	0.184327
831	0.1924009	0.2083174	0.1516821	0.2009508	0.2900792	0.2005315	0.1525202	0.2494694
832	2.2654712	1.6317451	1.872706	2.1731413	1.4674569	1.3684293	2.3998554	6.7572721
833	0.1353957	0.049311	0.0398611	0.0238928	0.0383087	0.7746386	0.0556621	0.1719603

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
834	0.8337373	0.4142185	0.7533466	0.5894167	1	0.5581931	0.5714521	0.2536972
835	0.478336	0.2816137	0.5280319	0.5833671	0.1905804	0.8211747	0.2356874	0.8059021
836	1	0.4395381	0.6968043	0.5940208	1	0.7236126	0.5644513	0.2564722
837	1	0.4275731	0.7028738	0.5779624	1	0.7249555	0.5940249	0.2828508
838	1.4098012	2.4634163	2.1116542	3.3132452	2.2545539	1.0333905	4.4481058	1.8885089
839	1.4440635	1.1556973	3.2927193	3.8490817	1.882658	1.2575886	2.2012893	2.9396651
840	2.2715265	1.580399	1.5822777	1.5066652	1.7975049	0.798835	2.6790569	1.5310669
841	2.0355449	1	2.3539698	2.2940518	1.1261276	1.0859398	1.6354735	2.9069542
842	1	1.9361145	1.6705171	2.2499251	2.5571163	1.8163916	2.3183956	3.2491552
843	0.431536	0.1528579	0.5096087	0.5699093	0.4092619	0.2835328	0.4716983	0.5179544
844	2.0162731	1	1.5617525	1.7287697	2.2252824	1.41159	1.5976808	2.4487597
845	1.763341	1.2463139	1.4562837	4.2322915	2.6777545	1.8225355	1	3.0372701
846	0.2538956	0.431834	0.1141199	0.3973746	0.3194004	0.3705604	0.4730844	0.1530688
847	1	0.7316104	1	1	1	1.608501	1	2.0919447
848	0.3305888	0.0854642	1.4384123	1.3238233	0.6394906	2.9214307	0.5661583	1
849	1	0.4507714	0.6959871	0.5849726	1	0.5903854	0.5929185	0.2731101
850	1	1.6561055	1	2.063006	2.3693158	2.2098123	1	1.2031075
851	0.6518921	0.4742279	0.280613	0.2467003	0.1714163	0.2314208	0.2490535	0.2421065
852	0.4052563	0.52143	0.7656141	2.123231	0.7080032	1.8312008	0.6319233	2.4839228
853	1.4259085	1.5070965	1.9260683	1	1.6323818	1.3656785	1.6448305	2.8091072
854	1.3668885	1.1919304	2.0251794	2.3375204	2.2625441	2.3890202	3.40331	2.5698937
855	0.5772356	0.3699063	1	1	0.4255163	0.591602	0.2817487	0.6830609
856	1.2183858	1.3661728	1.6955467	1.8347149	1.256919	1.4108071	1	1.8834369
857	0.3809037	0.6094396	0.5500161	0.5546223	0.4409531	0.3792825	0.6153744	0.3241972
858	1	0.1544688	0.1010109	0.1167542	0.2429486	1.3505864	0.2451901	0.4371302
859	0.4349524	0.4503287	0.7870822	0.4288997	0.4270544	0.5665047	0.4368481	0.5834631
860	0.2319301	0.1518496	0.3716636	0.5032461	0.1198533	0.7505132	0.1152375	1.1391943
861	1.8185614	1	2.0258326	1.808808	1.7039719	1.5014796	1.7813234	2.3786632
862	1.8185614	1	2.0258326	1.808808	1.7039719	1.5014796	1.7813234	2.3786632
863	1	0.457215	0.6916375	0.5781148	1	0.6021806	0.5677098	0.2847132
864	0.2910158	0.0623704	0.5506188	1	0.2721818	0.9240782	0.4276739	0.7138162
865	0.7522261	0.360622	0.3713687	0.3543916	0.5845911	0.7560535	0.4323632	0.3345649
866	1.2458701	1.7966726	1.4748068	3.0377863	2.8591834	2.3588296	1.7886175	3.0871404
867	1.3154787	1.8569156	1.1949557	1	2.0734425	2.2848698	1.9665865	2.0472024
868	1	0.3950106	0.709337	0.5395947	0.8413247	0.578382	0.5496192	0.2452168
869	1.813634	2.5181195	1.8605014	3.5114152	3.5045732	1.3611918	4.6538325	3.7729019
870	1.7415945	1.7645651	1	1.789446	2.4289436	2.2713476	2.1009136	2.2595779
871	1.4124182	1.3773262	1.4393463	1.9317601	2.4309801	2.0429063	2.4613901	2.365477
872	1.5215998	1.5540158	1	1.8080834	2.0936548	2.3435165	1.7145475	1.9674397
873	1.2440414	1.6590506	1.2213102	2.0586887	2.3406258	2.4378463	1.9080524	1.9779315
874	1.3231436	1.3584257	1.318897	1.7360841	2.0400705	1.7154082	1.5630681	1.711669
875	1.2489799	2.2600607	1.6165555	1.5186226	1.4056805	1.18428	1.9042481	2.2670029
876	1.2773292	0.8519674	1.3170762	1.5981722	1	1.8805345	1	1.2130034
877	0.1775419	0.2129042	0.1609922	0.1461827	0.1515065	0.5409185	0.0956259	0.0949727
878	1	0.1965676	0.406629	0.3533243	0.3548211	0.7665659	0.2313988	0.5241005
879	1	1.2712461	0.8779025	2.3938181	1.7601762	1.5332822	1	1.1792992
880	1	0.5021483	0.735482	0.6249965	0.6768025	0.5267224	0.4921705	0.311756
881	0.2646594	0.1756812	0.1100617	0.2035376	0.3495419	0.2358184	0.1669514	0.2648408
882	0.6636961	0.2572042	0.3630712	0.2840264	0.3137396	0.4989795	0.2377689	0.5233556

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
883	0.1266357	0.0754852	0.087369	0.1018631	0.3332717	0.1310775	0.080998	0.2158211
884	1.367436	2.2585359	1.5928786	2.9602039	2.9434798	2.6421877	2.8458891	2.4114051
885	1	2.0180617	1.4296265	1.838055	3.4989343	1.2501147	1.8049458	1.6752705
886	0.8010846	1.7318551	1	2.0793302	2.4934358	2.1753567	1.9367109	1.9950475
887	1.5564424	2.2592798	1.323111	1.9208793	3.0335588	1.776622	4.0080094	1.5594755
888	1.5578769	1.2617897	1.2355052	2.4265977	2.2424932	1.9085566	1.5079374	2.8826058
889	0.5173834	0.5976468	0.442643	1.3579585	0.2791624	0.6720032	0.3203354	0.7879481
890	1.5549204	1.5389765	1	2.0371541	2.166396	1.603126	1.6987309	1.9089897
891	1	0.5870161	0.6640152	0.5627123	1	0.5687847	0.6160337	0.2773317
892	1	0.4248985	0.7317687	0.6045273	0.828296	0.5929554	0.5515181	0.2352775
893	1.5677647	0.658185	1	1.5297642	1.3627904	1.5586487	1	2.5523183
894	1	1	1.2837393	2.3667205	2.2277045	1.8054484	1.5041537	2.4359212
895	1	2.1366479	1.3418864	2.2433471	8.5814287	1.030499	2.4471729	1.7868687
896	1.3923033	1	1.3235525	2.743348	1	2.4451488	1.8924169	2.424076
897	1.6016327	1	1.1054291	1.7353773	1	1.3893569	1.8690041	2.528423
898	0.8800554	1.352929	1	2.0035366	1.7884501	2.01424	1.3926991	1.4354299
899	1.3669761	1.2941308	1.3071169	1.7198576	2.1300562	1.7735109	1.5460847	2.2820515
900	1.6202038	1.166408	1	1.6186703	1	1.3504363	1.7819994	2.5431364
901	1.2770445	1	1	2.0857171	2.0498661	1.9964096	1.372816	1.4929922
902	1.7599794	1.4003032	1	1.7673948	1	1.2220554	2.8087232	3.165233
903	1	0.4285814	0.6682009	0.5191116	1	0.5507535	0.5693101	0.2609173
904	1.3744549	1.2430552	0.8562005	2.4421988	2.0525265	2.1202033	1.3635806	2.1347315
905	0.7282787	0.1830778	0.2980396	0.3364706	0.2892136	0.6228045	0.1836087	0.5090581
906	1.3359879	2.1535379	1	1.8758451	2.255577	2.1726777	1.2422532	1.7302253
907	0.122201	0.1631382	0.5189425	0.2408735	0.1202264	0.1896985	0.0744597	1
908	0.5627379	0.7452724	0.7649381	0.3044089	0.4222244	0.829419	0.3305815	0.5751752
909	0.3845171	0.4727338	0.4250533	0.5463218	0.518577	0.6150994	0.4230725	0.4482552
910	0.4359817	0.1805938	0.2297433	0.234321	0.3389221	0.3660159	0.2037703	0.3177035
911	0.3334905	0.1407454	0.2371331	0.2997474	0.490117	0.4364306	0.2482547	0.3854906
912	0.8070961	0.2836919	0.475346	0.4192242	0.505527	0.9027838	0.3353445	0.4090382
913	1	0.5081308	0.7836938	1	1.1552937	0.5188324	0.5928998	0.2902447
914	1	0.457258	0.7475333	0.6049897	1	0.6871331	0.6165527	0.2800571
915	0.2725762	1	0.0386995	0.1122772	7.4036393	12.941468	1.8691901	0.1298254
916	0.7404878	0.2011729	0.6578483	0.2524991	0.1871715	0.735643	0.2056721	0.684346
917	1.6281644	2.0966581	1.316501	1.9279742	3.2085395	1.787568	3.568174	1.6103391
918	1	0.4346315	0.6848437	0.5748277	0.8657983	0.5469119	0.5723518	0.2594708
919	2.2135795	2.0919422	1	2.5755721	3.3628186	1.7350542	2.9666529	2.028522
920	1.8369354	1.691441	3.8425131	7.2163495	2.8280422	1.7947835	2.5259371	5.1923768
921	0.4038109	0.3895446	0.7393131	0.402551	0.3730216	0.5206971	0.4035306	0.6224195
922	1	1.7354458	1.748899	2.1844629	1.8259461	1.4577563	1.9853641	3.0179254
923	1.3310166	1.3049522	1.759679	2.2965235	2.3205658	1.4958329	2.1806735	3.2523834
924	0.1364907	1.9767008	0.0162573	0.0773106	8.7574636	12.990652	2.4408128	0.1048561
925	1.6654379	1.3081617	1.919495	1.8497082	1	1.3705554	1.9501836	4.8016776
926	1	0.4617772	0.6846135	0.5654033	1	0.6076232	0.573091	0.2862529
927	1	1.1465667	1	2.2495293	1.9846221	2.4798514	1.783974	3.4242382
928	0.5870467	1	0.7060344	1	0.3434147	2.333816	0.6239741	0.3207517
929	1	0.4067542	0.4673781	0.4346184	0.8051699	0.7129904	0.471801	0.2780332
930	1	1	0.195459	0.2708965	0.2779758	0.6195801	1	0.226226
931	1.4830342	1.7539774	1	2.194647	3.3853955	2.1539382	2.4581688	2.1563918

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
932	1.3803679	1	3.3323187	3.3416708	5.3643852	11.041923	2.4813336	2.0154413
933	2.4497253	1	1	1.7537814	2.204486	1.7600413	2.2566522	1.9548185
934	1	1.414457	1.130178	2.1579235	2.1027651	1.4333057	1.7164277	2.1411631
935	1	2.1956428	1	2.7043825	1	1.6221457	1	1
936	0.3138135	1.3428454	0.3582118	0.7488552	0.3726022	1.8037514	0.2436538	0.4557485
937	0.4159105	0.3069763	0.4881033	0.5912424	0.3822758	0.2506698	0.2867862	0.5395962
938	1.1925002	2.0796636	1.3089557	1.989717	2.501323	1.7174552	1.8278385	1.9247709
939	1.521775	1	1	1	2.4599408	2.256913	1	1.8457719
940	1	0.4781445	0.6992545	0.5214895	1	0.5858885	0.615603	0.2638413
941	1.5321993	4.1425418	0.1439762	0.2775931	0.2415227	1.0543588	1	0.1657708
942	0.0873256	0.0331035	0.0594765	0.1562644	0.0781512	0.2080066	0.0422187	0.2148588
943	0.2796389	0.1330782	0.41698	0.4715783	0.2277234	0.3793536	0.16834	0.421529
944	2.021759	1	1	1.5389997	1.8618543	1.6771127	1.4804814	1.582899
945	1.7660895	2.1126934	0.7404752	2.5603605	2.6700486	2.3109374	2.0369665	2.2586343
946	0.122201	1.913156	0.0205971	0.0930781	8.1056267	12.05702	1	0.105061
947	1.744989	1.7539958	1.2844394	3.2694808	2.8180782	2.4717259	2.1474316	2.6101227
948	1	1.7817317	1.7743026	1	2.7970097	2.0653956	2.8348646	1
949	1.3444193	2.179005	2.429941	1.820049	2.4051016	1.3261874	1.3949746	1.9204873
950	1.3830287	1.259982	2.1695228	3.4895377	4.075362	1.3493368	2.3281661	2.3170594
951	1	0.3895077	0.6926609	0.5315874	0.7808565	0.5897646	0.5421576	0.2226377
952	2.9097093	1.6482047	2.0815027	1.9849301	1.8157974	1.4458097	1	2.281052
953	1.4259742	1.2407618	1.4849773	1.9993081	1.9508496	1.8452568	1.4920854	1.379606
954	0.7674356	0.7909681	1.5192213	0.4400597	0.494235	0.3735508	0.258404	1.1766731
955	1	0.4361195	0.4879611	0.3428373	0.246655	0.4728754	0.3736447	0.4526879
956	1	1.1956502	2.6698449	1	1.380225	1.0545417	1	3.6647678
957	1	1.8843564	1.4779302	2.6739422	1.9679526	3.2113352	1	1.4571399
958	1.5524457	1.2991972	1.2496402	1.8199195	1.4307086	2.1598501	1	1
959	1.3359331	1.3195918	1	1.6751762	2.1987742	2.3862058	1	1.4045877
960	1.8213318	1.2533908	1.3628022	2.3264643	2.172958	1.6440403	1.2207237	1.6893941
961	1.8978607	1.9550642	1	1.6606381	2.7186594	2.5854793	1	1.7736018
962	1.5727359	1.2810591	1.240467	1.8720009	2.0244023	1.4931376	2.0676869	2.292562
963	0.8845887	1.2842809	1.1557059	1.9852896	1.8192153	2.0279077	1.3645382	1.5075379
964	1	1.8892875	1	1	2.1941983	1.6185452	1.3073315	1
965	1	1.3503466	1	2.5368283	1	2.1772186	1.4422474	1
966	1.3700092	2.5622473	1.5911635	2.8067688	3.2362945	1.4322546	2.1943457	1.945202
967	0.4386973	0.6742264	0.4184478	0.7249211	0.4191168	0.629529	0.447826	0.4703626
968	1.3309399	1	1	1.7999401	1	2.7500009	1	1.3457094
969	0.79204	0.4685282	0.7147726	0.6120692	0.8635956	0.5720569	0.6016293	0.2438572
970	1	1.27472	1.1456745	4.044031	6.3008697	1.3119824	2.6653708	1.136947
971	1.956826	1.0747461	1.8574293	1.8371748	1	1.741158	1	2.9339164
972	0.4916401	0.3197099	0.3606769	0.459445	0.206141	0.4723914	0.2147317	0.3313366
973	0.6937536	0.2294744	0.4943723	0.3513859	0.3147927	0.5392039	0.2793393	0.542514
974	0.8002962	0.4297496	0.7214713	0.6410099	1	0.5623861	0.5919406	0.3046104
975	0.719464	0.2624735	1	0.5894122	0.3235181	0.5458638	0.2857971	0.5836928
976	0.5687932	0.2030851	0.4892662	0.5207922	0.4797436	0.819962	0.3627227	0.5124913
977	2.3356601	1.8285218	1.4035094	2.79257	2.323355	1.8154872	4.9866022	2.8427182
978	1.8638503	1.3227214	1	1.8315617	2.1670032	2.9290975	1.7218299	1.122395
979	1	1	1.3351589	1	1.6181096	0.8891486	1	2.075729
980	1.438917	1	1	1	1.9611861	4.3822631	2.0176384	1.818996

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
981	0.4735399	1.2332914	0.7027886	1	0.6660044	1.5542634	0.2776135	0.3930583
982	1.3184461	0.8174005	1.8778386	1.7307194	1.5655779	2.0090236	1.5221536	1.9034955
983	1.3640415	2.0161065	1	1.7913259	3.4225263	1.1831783	1.814244	1.5143793
984	1	2.2456117	1.4448097	3.3992577	4.3063807	2.95873	1	2.4758584
985	0.350441	1.7717712	0.0251445	0.1130683	6.6071786	12.101039	1	0.1142305
986	1.5023389	1.8347011	1.5324424	2.9328229	2.9535996	1.422809	1.7358328	1.8328278
987	0.4801537	0.1373883	0.3379779	0.2216973	0.1910618	0.6298734	0.2785894	0.2760776
988	0.8143669	0.454233	0.7454777	0.5698585	1	0.5213673	0.5480209	0.2570496
989	0.6984511	0.1878737	0.4556874	0.1262234	0.1531039	0.779069	0.100562	0.5800859
990	1	1.3465837	1.7907017	1.8154843	1.3220634	1.3317581	1.3995828	1.2156791
991	0.2597538	0.2497829	1	1	1	0.492265	0.6477596	0.831784
992	1	0.4312991	0.8026139	0.5239179	1	0.6510985	0.6223477	0.2630653
993	1	1	1	1	1	0.4461374	1	1
994	1	1.2564221	1.6691113	1	1	2.2276794	1	1
995	1	1	0.7327149	1	1	0.5357022	0.5598915	0.2829874
996	1.1561465	1.2583404	1.263615	1.7441343	1	2.2301321	1	1.1994757
997	1.509763	0.0711566	1	1	0.2319266	3.1910055	1	1.4959659
998	1.2777781	1.6787627	1.2651847	2.0668403	2.7249405	2.8504753	1	3.2373907
999	0.4722697	0.3082429	0.5852797	0.4571375	0.4579073	0.6429277	1	0.8042756
1000	0.6240903	1	1	0.5239465	0.1810794	0.7570425	0.3597745	0.6590229
1001	0.1665263	0.0611469	0.1055548	0.2357406	0.4333952	0.2797282	0.1752417	0.2821058
1002	0.5305452	0.2653633	0.3604751	0.3563948	0.5266342	0.6379852	0.3301437	0.4005889
1003	1	1.3056839	1	2.4252171	1.6450393	1.4527611	1	1.7093472
1004	1.7404886	1.6304048	1.3158345	1.7714751	1.7100857	1.8154269	2.9638441	1.7027354
1005	1	0.4961781	0.7184588	0.5638452	1	0.6418675	0.607002	0.2890403
1006	0.7705672	0.1499866	0.3947883	1.5172113	1	0.4917847	1	0.4563942
1007	0.5473642	0.1980187	0.1567691	0.1759294	0.2266575	0.4898708	1	0.2141759
1008	1	0.4568399	0.702376	0.563241	1	0.5928397	0.5647511	0.2664301
1009	0.9122043	0.4586722	0.7467112	0.5668234	1	0.5213921	0.5480209	0.2689382
1010	1.4283723	1.7910959	1.686743	1.700759	1.6864214	1.7014527	2.312117	1.8332127
1011	1	0.499818	0.7772443	0.6152938	0.9105003	0.6540222	0.5783971	0.2669268
1012	1.7729989	1.3463009	1.839971	2.4524241	2.0042283	2.0278701	1.9331231	2.3886025
1013	1.374214	0.615373	1.7472771	1.9901298	1	1.4002597	3.0272163	2.2816356
1014	0.7501018	0.5365122	0.7380244	0.6313163	1	0.6067367	0.5053822	0.26923
1015	3.2260522	2.1890209	1.1874811	3.0620314	2.9104858	2.4293996	1.6442546	3.0877922
1016	1	0.5193579	0.7409339	0.5872424	1	0.4727855	0.6389745	0.3105268
1017	1	1	1	1.9435523	1	1.3933212	1	1.2810698
1018	1	0.2357275	0.3978875	0.4130076	0.3394843	0.7656537	0.2661305	0.4861437
1019	1.5056677	0.1731541	1.4079404	3.4482943	1.7482804	2.156231	2.822228	0.8224718
1020	1.7343238	0.3197714	1.2189201	2.2785878	1	8.3990853	1.7487619	1.6346566
1021	1.7122378	1.7253745	1.3376709	2.5736716	2.5960383	1.7796571	2.1646731	1.6941123
1022	1.1788128	1	1	1.7518595	1	0.9956606	0.5453531	0.759943
1023	0.9020866	0.484084	0.7388927	0.6115716	0.8792652	0.6422444	0.5571512	0.2648471
1024	0.5407943	0.4359227	0.4962342	0.5254931	0.4117904	0.5071697	0.3537619	0.5958733
1025	2.5791424	2.4189811	3.0864102	2.7017163	2.2565278	1.2725117	1	2.7427604
1026	1.7127415	2.3313587	1.5828094	2.8251636	3.5096992	1.707242	2.073851	2.06574
1027	1.6862208	1.9425766	1.495111	5.5119205	4.1263523	1.6196477	1.703404	2.3344485
1028	1	1.8339633	1	2.7569504	2.777362	1.5052402	1	1.7627002
1029	1.5929166	2.1463441	1.4213226	1.8960549	1.5971999	1.734779	2.5231095	2.8041841

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
1030	0.3097183	1	0.4150077	0.5566906	0.4469173	0.4993257	0.4499501	0.6657277
1031	2.101551	2.3073488	1.4765115	4.6425124	4.2633749	1.7787021	1.9605652	3.4835139
1032	0.2736712	0.0924366	0.5514286	1	0.3547488	0.6709562	0.1748979	0.51472
1033	3.5741609	2.1423968	1.2899353	3.2286226	2.9809289	1.6579705	2.2453221	2.4359522
1034	2.2336398	2.8928954	1	2.842853	3.047108	2.9447109	2.5670176	2.1329249
1035	1.2743727	1	1.1858556	1.9689875	1.5970166	1.335449	1.2306951	1
1036	0.6547829	0.2424109	0.7798178	0.3504823	0.7266186	1.052411	1	1.1725633
1037	1	0.3236449	0.4013091	0.3918628	0.3981895	0.698324	0.3843461	0.4586726
1038	1	1.6936237	1.9805811	2.5904407	1.3995737	1.2651086	1.2964431	2.1861166
1039	1	3.3890612	2.5904672	4.6764654	4.0379972	3.5300228	3.4845467	6.212132
1040	1	2.9809051	1	3.7398959	2.929354	2.064577	3.5726987	4.3971155
1041	1	2.5074396	1	1	1	1.578328	1	2.1729738
1042	2.4634346	1.587273	1.2802285	3.0843092	1.8115903	2.6830841	1.3527777	2.6416664
1043	1	1.6292304	1	2.9650081	2.1950981	1.5302791	2.1982836	1.9058794
1044	1.2178712	1.506039	1.3863157	2.0032751	2.3880167	1.6440156	1	1.402688
1045	1	1	2.6126478	6.1014189	2.0764743	5.1687595	1	3.9136102
1046	0.6496802	0.3293999	0.3069353	0.3817447	0.5281651	0.4935043	0.3767222	0.2593714
1047	0.3106271	1.5357854	0.0710949	0.128903	4.6307849	12.947596	1	0.1332958
1048	1	0.4480906	0.1047625	0.1248884	1	5.7757571	0.7985347	0.1175767
1049	1.9596182	1.6905371	2.2931617	1.706888	1.612448	2.0032469	1	1.7256685
1050	1.4523745	1.4532787	1	2.3744103	1	2.6691383	1	2.0592649
1051	0.3671396	0.1208181	0.2857118	0.2319937	0.1728916	0.444069	0.1305941	0.3447401
1052	1	0.4403128	0.6998844	0.5591326	0.8710327	0.5354557	0.6099126	0.2912132
1053	0.7644024	0.4219164	0.4571246	0.5030778	0.4719637	0.7151254	0.3591096	0.531749
1054	0.6841615	0.2471329	0.4606872	0.4207414	0.4279394	0.6790284	0.287358	0.5049545
1055	0.660444	0.3882718	0.5769373	0.5385192	0.4251887	0.7713065	0.2875486	0.510753
1056	0.6920345	0.2923798	0.5977527	0.4799645	0.4155031	0.5954473	0.4848735	0.5380007
1057	0.7232527	0.329154	0.5421505	0.5290693	0.4032709	0.8293938	0.3093409	0.552981
1058	0.6608929	0.3187814	1	0.5254967	0.342674	0.5705709	0.4427381	0.5410737
1059	1.6852025	1.8689052	1.530513	3.0923889	2.6688197	2.066254	1.4663042	1
1060	0.5332279	0.3706502	0.3678649	0.6282768	0.4510218	0.4105889	0.3253478	0.4196914
1061	1	1.2052788	1	2.2461052	1.7942142	2.4731231	1.9063096	3.8608407
1062	1.4497465	0.45593	0.8549379	1.2558543	2.4934358	2.2738029	1.4575428	1
1063	1.1987855	1.4576072	1.5376951	2.3435173	1.4591488	1.3687204	1.3394966	1.7316655
1064	0.8168635	2.4206473	1.4540922	4.292188	3.7396177	2.1270474	2.2499842	2.030701
1065	1.7838612	1.306022	1.4757598	3.5319422	2.3875251	1.1425662	6.5173033	3.75704
1066	1	0.4923844	0.7209536	0.5717949	1	0.5890754	0.6108581	0.3113028
1067	1	1.4192467	3.0721935	8.3740527	4.1589054	7.4202081	2.5037148	5.8539947
1068	2.4954303	1.9355796	1.6139592	2.0586335	2.8262044	1.7562263	2.7042571	2.5409573
1069	0.8663571	0.380371	0.6119045	0.5771625	0.7287034	0.7124656	0.5405868	0.3044366
1070	2.1871245	2.7426875	1.6582045	1.9180464	2.0056724	1.5394324	1.5639357	1.702574
1071	0.8409861	0.2575424	0.439435	0.3872724	0.4244159	0.7815964	0.289962	0.444133
1072	1.6427059	2.1653983	2.2222991	2.5095318	2.2419874	2.3827231	1.2895893	2.1887302
1073	1.2947833	1.4836215	1.3980162	2.146214	2.6837443	1.8910684	2.1030307	1.5647897
1074	0.2311636	1	0.6580953	1	0.7166583	1.1486494	0.5111634	0.890383
1075	0.0226116	0.0325194	1	0.0510151	0.2690021	0.0650246	0.0570092	0.1099344
1076	1	4.1985055	1	1	1	1.5616528	1	1
1077	3.8628882	2.3462996	1.3724311	6.4856263	3.6767835	1.693235	2.6720696	2.5049437
1078	1.6618244	1.6450628	1.2499304	2.3820764	2.0183544	1.8039299	1.9558018	1.4024273

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
1079	1.4229849	1.5972643	1	2.5515062	1	2.4545866	1	2.1678769
1080	1.5447151	1.7616569	1	2.3021045	1	2.6516676	1.8024055	2.0775169
1081	0.3599893	0.5681401	0.2572983	0.4010424	0.2666141	0.6812275	0.3098563	0.2170379
1082	1.9936067	1.4727325	1.2973517	1.9390828	2.0772181	1.8692224	1.9097338	1
1083	1.1137484	1.6055587	1.1285196	1.6217493	1.9419754	1.3687889	1.5140555	2.1850736
1084	1.3697793	1.7417726	2.6932194	1	1.982643	1.9097896	2.3538412	4.5124696
1085	0.1849769	0.2220655	0.2124332	0.1849971	0.1866324	0.5446543	0.0839694	0.1154473
1086	1	1.9438555	1.4077038	2.6728245	1.4440692	2.2974436	1.4870452	4.921185
1087	0.1662854	0.2853274	0.4209627	1.8824721	1	1.5202825	0.1810909	1
1088	0.4347115	0.7338423	0.6526642	0.6276447	0.5550825	0.441098	0.6130312	0.3265812
1089	0.3805423	0.1811902	0.2425671	0.4117753	0.5413125	0.4069517	0.3015665	0.3581373
1090	1.9801712	1.5176904	1.7850185	2.5116676	1.8016934	1.3844681	2.2347255	3.1354276
1091	0.8509286	1	0.564302	0.6669052	0.804072	0.4802733	0.389215	1
1092	1.8311757	0.4297496	1	1.9241548	4.2978695	1.9105568	2.477733	1.1439933
1093	1	1.113869	2.2953966	1.7757387	2.1485367	2.5724668	1.6055106	4.0769349
1094	1.6798589	2.0562255	1	1.5806576	2.7400695	1.1739087	3.1398977	2.2761413
1095	0.8817198	0.4857748	0.7320174	0.5900876	0.9342141	0.6608862	0.5980091	0.267678
1096	1.2762342	1.389697	1	2.4215434	2.6904889	1.2490155	2.0437635	1.3759494
1097	1	0.4943827	0.7766997	0.5807093	1	0.5471554	0.6057036	0.2524866
1098	1	1.208931	1.2634455	2.1610839	3.4357068	2.3013105	1.5544014	1.5584884
1099	2.1139682	1.4516186	1.573392	2.876099	2.7192968	2.4828912	1.8119105	1.8859201
1100	1.3170883	1.3227951	1	1.8089359	1	2.8133771	1	1.4256334
1101	6.2020632	4.2752265	1.6740421	2.2177359	1.7994571	1.6398994	2.6434887	2.4636717
1102	1	1	1	1	1.5575532	2.4076355	1	1.7480179
1103	0.6511365	0.522094	1.4530829	2.6763671	1	2.670246	1	3.1707645
1104	1.4022567	2.2251556	1.5243528	2.161023	1.4499366	1.8171158	1.493232	2.3074616
1105	0.8754345	0.7027063	0.5854934	0.6941509	0.8478958	0.5041425	0.5219155	1
1106	1.1568035	1.872539	0.7982191	2.4927375	2.4761344	2.3424625	2.0741563	1.4041407
1107	1	1.3358546	0.8410469	2.1740648	1.9024224	0.8817872	1	1
1108	1	1	1.8922657	1	1.3832155	2.3470365	1	1.7446406
1109	0.4526584	0.8783813	0.5504057	0.4973809	0.7101781	0.349728	0.3109832	0.2435903
1110	1	2.3152927	1.2527351	2.8989174	2.6911132	1.7247944	2.4457921	1.6604826
1111	1.3990922	0.8684699	1	1.6849611	1	1.9869444	1	1.8815247
1112	1	1.4966625	1.3259276	1	1	1.4795451	1	1.441216
1113	1	2.9027084	1.4067316	3.4965343	4.6166527	2.9843198	3.1571383	2.8777386
1114	0.8895599	1	0.6390017	0.7525199	1	0.5131176	0.4511895	0.8527615
1115	0.7222453	0.1531223	0.4013818	1.5634591	1	0.5426332	1	0.4859761
1116	1.6457499	1.6719072	1	2.4096801	2.5255618	3.400525	1	1
1117	1	0.4865741	0.7094905	0.55286	1	0.6060644	0.5699839	0.2703289
1118	0.5404658	0.5203909	0.4763795	0.5660665	0.5026677	0.3836204	0.2977155	0.446579
1119	0.2697949	0.1809627	0.3147402	0.6264814	0.2477086	0.5619239	0.2272158	0.3695728
1120	1.41532	1	1	2.2451851	3.7188331	2.1630962	2.4136299	2.1984398
1121	1.44702	1.8389374	1.3764917	2.1348685	2.0268198	1.6011079	1	1.828389
1122	1	2.8975129	0.6777369	2.7259999	2.234285	1.0871054	1.5327532	1.3607704
1123	1.2412273	1.3115372	1	2.1386171	2.6663654	0.5733493	1	1
1124	1.6168312	1.5302272	1.3044247	1.9930245	2.7839176	2.1170025	2.5053846	1.8315241
1125	1.2551447	1.9314293	1.8149802	1.6588072	1	1.0630586	1	1.8658491
1126	2.8518061	2.2526825	1	3.443497	2.6965359	1.9258286	1.4964044	3.0700306
1127	2.5737112	1.5721661	1.2660773	2.9565539	2.4665676	1.6840845	1.4585992	3.0036156

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
1128	2.210853	2.3429548	2.2299264	2.5830285	2.8245984	0.9918416	3.3985889	2.4788383
1129	1	2.6464634	1.3672275	2.4200922	2.6652421	0.9403562	1	1.7899914
1130	1.4856951	1.2158296	2.1139642	1	2.0214619	12.292795	1	2.1723903
1131	1.7127962	1.8985041	1.1642036	2.3769111	2.1444977	1.6835661	1.8035016	1.9321276
1132	1	0.5110267	0.7034511	0.6514977	1	0.5154632	0.629727	0.2901081
1133	1.2201159	1.4763602	1.3175597	1.9265704	1	1.9042372	1.6640169	1.7662637
1134	1	1.5318012	1	1	1	2.9517038	1	1
1135	1.5477811	1.2920711	1.185147	2.0475915	2.2281325	2.3336168	1.4226931	1.5416643
1136	1.1395245	1.510841	1.1400077	2.0256988	2.2232917	2.5487892	1.4872415	1.8752234
1137	1.5316299	1.2200598	1.3993919	2.3880814	1	2.2505049	1	1.4803834
1138	1.7547235	1.5846476	1.6527862	3.9325259	2.4955819	1.6553359	1.3713459	1.8840018
1139	1	1.5232302	1	2.2735243	2.0772181	2.0777936	1	1.741698
1140	1.384496	0.4853874	1	1.9957201	1	5.9663605	1	1.3231613
1141	1.3355718	1.2335066	1	1.8765791	1	1.9545287	1.7968878	2.0122814
1142	1	1	1	3.1669258	2.9712556	1.9674309	1.9458735	1
1143	1	0.4090784	0.4718551	0.6826398	0.3644242	0.638652	0.3142261	0.7740852
1144	0.7383088	0.4767365	0.4611778	0.455815	0.3551942	0.6561998	0.2994336	0.6240087
1145	1	1.5782347	1	1.8652206	1	2.4017673	1	1.3923949
1146	1.138539	1.1326773	1.6947842	2.7006703	1	1.8239943	1	2.2069077
1147	1.8001765	1.3193274	1	2.1087019	1	1.5590486	2.2126126	1
1148	1.2753363	2.3950326	1.3927716	2.6002726	4.2519128	1.279433	2.0073601	1.3281216
1149	1.3949641	0.8841179	1.802867	1.8107716	1.8477643	1.2397009	2.1580408	2.6092473
1150	0.2014893	0.0450808	0.1596787	0.299915	0.5171856	0.4283583	0.1658976	0.2500406
1151	1	1.3181284	1	4.0232511	6.6891094	1.2673807	2.7357676	1.2256122
1152	1	1.615882	1	6.5588037	2.8200197	9.445707	1	2.7859196
1153	2.1134097	1.7768191	2.044074	1.8972738	1.3690105	1.8318448	1	1.9580405
1154	1.3708743	1.7690412	1	2.3786058	1	2.3366079	1	1.9412847
1155	1.2119034	1	1	1.3864957	1.5361326	5.1364775	1	1.6042365
1156	0.8699924	0.4714734	0.6931706	0.5976947	1	0.753652	0.638258	0.2897046
1157	1.0497681	1.8005892	1.8814012	1.7891122	1.3457648	1.7398563	1.3994438	1.9994677
1158	0.8033732	0.4112918	0.592499	0.539963	0.6636923	0.7288296	0.4973486	0.3900846
1159	0.7101018	0.3195808	0.533489	0.4434293	0.4368424	0.6925584	0.3769616	0.5051904
1160	0.1109993	1	1	1.6628333	0.4715544	0.5768021	0.3367272	0.7118482
1161	0.6608272	0.280052	0.4398581	0.4387788	0.3106803	0.8594833	0.2688503	0.4383718
1162	0.8682405	0.3055622	0.5205123	0.516088	0.4904451	0.8051267	0.3905882	0.4428355
1163	0.6892751	0.4014173	1	0.5502237	0.5365668	0.681185	0.4188989	0.4664576
1164	1.6869873	2.2567897	1	1.6756152	2.2297746	1.6348258	2.5403996	2.2644389
1165	1	1.3982065	1	2.2948751	1	3.0547459	1	1.5196439
1166	1.72575	1.9216102	1.9629903	2.4466375	2.8095448	1.6566647	1	3.3974437
1167	1.9020764	1.6577718	1.1555287	1.4280931	2.4157052	2.5051253	2.6094565	2.6393632
1168	1.6824869	1.9055503	1	2.6861109	2.6602495	2.067074	2.5539865	2.3337284
1169	0.0498331	0.0275945	0.414558	0.0401062	0.4305049	1.4239574	0.0273588	0.0738214
1170	0.5068933	1	0.6947745	0.7387613	0.5444679	0.5087123	0.6031039	0.4233542
1171	0.8461326	0.4460555	0.6967785	0.576499	1	0.6066257	0.5873623	0.2371151
1172	0.2201151	0.0918033	0.2356811	0.2656759	0.0823898	0.4513751	1	0.2671627
1173	1.2690839	1.9345159	0.7411014	1.1895426	2.3507468	2.0216858	1	1.3521659
1174	1.6179262	2.2068024	2.9128489	3.841951	3.9540204	1.984529	3.3330536	5.3533052
1175	0.1894773	0.2431672	0.0266894	0.1674409	6.5266184	17.288018	1	0.1356673
1176	0.7879776	0.2246356	0.3808879	0.3544292	0.3245653	0.7590704	0.2003591	0.5063327

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
1177	0.7460066	0.2422387	0.3769861	0.3896461	0.3389056	0.7320979	0.2561289	0.5570473
1178	0.3863786	0.2429089	1	1.583757	0.6276432	1.2170515	0.4344165	0.4595665
1179	1.7858979	1.77313	1.1398353	1.7423917	2.3281744	2.8063034	2.1017756	1.9698423
1180	1.4306717	2.093467	1.3119406	2.4042439	2.1801744	3.0243395	1.6503223	1.7233838
1181	1	2.0114583	1.4987979	3.0813366	1.9339875	2.9664331	2.0368192	1.84828
1182	3.3483518	2.3843404	1.4022821	3.673646	3.3386175	1.9055641	2.267367	2.4997723
1183	1	1.539161	1	1.76878	1.734337	2.8605389	1	1.5235178
1184	1.3881642	1.885457	0.7705927	2.3580653	1	2.5981303	1.7010899	1.9795643
1185	1	1	1.3281942	2.1831577	1.698026	2.7857198	1.4104429	1.4953016
1186	1	1.3211965	1	1.9311281	1	2.2259567	1	1.7624829
1187	2.2378555	1.8297454	1.2958571	1.9461649	2.4591584	1.6735203	2.3669917	2.3055495
1188	1.1934309	1.4794529	1.9042182	2.0017073	1.6748936	1.8568785	2.5360549	2.2838457
1189	1	0.5727331	1	0.6387421	1	0.5911192	0.5784506	0.2903378
1190	0.2542351	0.2566262	0.9345417	1	1.3755867	0.4880239	1	1
1191	1	1.2099271	1	2.1961546	1.9635657	2.6253189	1	3.2588089
1192	0.210961	0.113403	0.126825	0.1628979	0.3583882	0.2088119	0.1156792	0.254914
1193	1	0.4566002	0.730577	0.6157728	1	0.5867969	0.6550792	0.2803427
1194	1	0.2771438	0.6219225	0.4038625	0.4355709	0.6323422	1	0.4719456
1195	1.4650216	1.8738916	1	2.1550145	2.399876	1.6079572	2.2503436	1.8899244
1196	0.6426285	0.3396372	0.5639052	0.485295	0.5762882	0.7042817	0.3825509	0.3962121
1197	0.6441176	0.2790252	0.7571534	0.3919769	0.7178634	1.04265	1	1
1198	0.6611995	0.3517251	0.538563	0.4798714	0.5842819	0.7137302	0.3819468	0.4185305
1199	1	0.3949122	0.0777443	0.1223723	1	6.1668426	0.7459242	0.0983996
1200	0.7628913	0.3912477	0.6356012	0.4905413	1	0.7917058	0.4638623	0.3401585
1201	1.998797	2.517603	1.3069582	2.4744097	3.7700079	1.6878786	2.9020242	1.8176985
1202	1.8405489	2.1715284	1.736288	1.7658085	1.7988989	1.5032542	1.5350079	1.7423064
1203	1	0.7279766	0.2541162	0.3811928	0.2138638	0.7173861	0.2526198	0.2162929
1204	1.9158076	1.427621	1.6138209	4.4554317	3.7779904	1.6913237	2.4631116	2.7005075
1205	1.3797875	1.1269346	1.4621603	1.7938805	1.5429105	1.5852361	1.3523232	1.5223879
1206	1.5537159	1.6381457	1.6570743	4.7210635	2.5689163	1.8759225	1.6311181	2.032042
1207	1.3883394	1.6692326	0.9226547	2.1804281	2.2398946	1.5414282	2.5255974	2.2055295
1208	1.3276112	0.1870928	0.7755248	1	1	21.642518	6.4843043	1
1209	1.4266641	2.0099027	2.0547179	2.7064811	2.2604861	1.2512445	2.0843606	1.7342854
1210	0.8070195	1.1271621	2.5103941	1.7801054	2.0370248	2.3329698	1	4.159752
1211	1.4400668	1.7692503	1.1679744	1.9379564	2.7313579	1.9051327	2.3110739	2.3192757
1212	0.833146	0.5204585	0.7970289	0.6166586	1	0.6145603	0.6231254	0.2836827
1213	1.895397	1.4940679	1	1.6439517	1.2837947	1.3317095	2.8971005	3.3124972
1214	1.5628262	1.8510008	1.5903241	3.0171219	3.419331	2.2878807	1.8127265	1
1215	1	0.3932644	0.7002355	0.5849815	1	0.5408864	0.604761	0.2981167
1216	1.7007513	1.4807317	1	1.7176631	1	1.2629175	2.4293427	3.198931
1217	1	2.0051314	1.7653257	1	1	2.3779058	1	2.8807309
1218	1	1.4549326	0.8531668	4.1489913	2.7834722	1.5267121	1	1.3913829
1219	0.0423105	0.0810619	0.3217294	0.3474495	0.18512	0.6120534	0.0469629	0.1048065
1220	2.2178171	1.9949434	1.6821125	1	1.3487383	1.2007518	1	2.875963
1221	1	2.2193699	1	2.0717511	3.1296067	2.0566578	2.4440947	2.4823025
1222	0.1844951	2.002918	0.0242203	0.1008242	7.4297251	12.607341	1	0.1032296
1223	1	0.6680779	4.0763184	0.7684287	1	4.6397153	2.4022085	2.3825433
1224	1	1.4176235	1	2.0690696	2.7426614	1.7693225	2.0568187	2.2589012
1225	1.3175263	1.8380828	1.5728995	2.2445283	1	1.7206161	2.9481821	2.9614682

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
1226	0.0387517	0.0265	0.0404172	0.1185737	0.063199	0.1861838	1	0.1210284
1227	0.4734523	0.2035093	0.2060549	0.3686672	0.2461446	0.6551661	0.2376525	0.267051
1228	1.3053719	0.7788002	1	2.0367755	2.6072239	1.8156379	2.6613425	2.2536677
1229	1.6968641	1.9942117	1	1.5455093	2.9007797	2.2878807	1	1.7719752
1230	1.8356652	0.5716018	2.0008775	1.9097876	2.049685	1.6741607	4.1625622	2.2996765
1231	1	1.6688759	1.8741962	1.5949167	1.6550161	1.4783053	1.6956128	2.0078239
1232	0.5107587	0.3330152	0.2849157	0.555373	0.4455751	0.661942	0.2468161	0.4763783
1233	1.3882627	2.2683181	1.5766836	2.5717739	3.3732515	1.4259994	2.395163	2.243536
1234	1	1.5424812	4.1177431	1	2.9252903	1.0445917	1	1.1515362
1235	0.6496364	0.4883695	1.3719564	2.7812333	1.7303694	2.5031761	1	3.1857138
1236	0.4919905	0.6207652	0.3863709	0.3171219	0.4791523	1.0507732	0.2864319	0.3679649
1237	1.7642608	3.2312598	1.6844058	1.8313431	2.1559922	0.9433894	1	1.9867285
1238	0.7964309	0.5021975	0.4949599	0.5497703	1	0.6977449	0.5063359	0.2526542
1239	1.3343563	2.3096299	1.5126656	1	2.4778096	2.6749477	2.1635925	1.8857836
1240	1	1.4291397	1.3819688	2.1087019	1	2.3410086	1	1.3224722
1241	1	2.3891793	1	1	2.9335528	1.8155475	2.46613	1.3384706
1242	1	1.2202504	1	1.9475975	1	2.5400294	1	1.5711035
1243	1	1.4897086	1.1362438	1.9516099	2.363602	1.9125612	1	1.9984558
1244	1	1.6299805	1	1.7250387	2.1785363	2.0431734	1	2.0288758
1245	1	1.5299505	1	1	1	1.9207559	1.6476682	1.6896424
1246	1.5320132	1.7745072	1.626393	1	2.4749015	2.9357799	1.9831282	1.9502865
1247	1.3517448	1.6091494	1.6821501	2.4321356	1.5777532	1.5161522	1	1.4770061
1248	1.465164	1.4512251	1.4999015	2.438706	1	2.3470365	1	1
1249	1	2.5427381	1.5780371	3.4604241	1	3.3425403	1	1.4572082
1250	1	0.4594039	0.7193366	0.5953712	1	0.5940212	0.5611461	0.2719306
1251	1	0.1600209	0.373119	0.2901658	0.2842471	0.6918881	0.1923187	0.5486601
1252	1	0.4751317	0.5640022	0.5001267	1	0.7556305	0.4134433	0.3143076
1253	1	1	1.8307193	1	1	2.2089197	1	1.8596906
1254	1.642684	1.9208355	1	1.6200373	1	2.774344	1	1.5821664
1255	1.394986	1.493951	1	1.6931407	1.7089098	1.4270971	1.7729723	1.5854443
1256	1.4811727	1.5976209	1	1.4732532	1	2.932946	1	1.4496094
1257	0.4636521	0.5755921	0.5595718	1	0.414649	1.0285223	0.385952	0.5358278
1258	1.9548112	0.7432803	2.0546058	1	1	1.1667088	1	1.7366073
1259	0.7184675	0.2915743	0.5124849	0.5176163	0.5133322	0.6628205	0.3696978	0.4235591
1260	1	0.5377051	1	0.6226786	1	0.5894627	0.4983162	0.3092541
1261	0.7918977	0.4284769	0.6775663	0.5877822	1	0.5308947	0.6223614	0.2922686
1262	1	1.3132404	1.2068963	2.1110805	1.4587511	1.6100637	2.5465994	2.107223
1263	2.1040804	1.6176528	3.5111601	1.9122148	1.9053916	1.8000409	0.7274542	2.3631179
1264	0.8170715	0.2974154	0.4802835	0.4531393	0.4702224	0.8224033	0.3479984	0.5009316
1265	0.7248513	0.4249907	0.6644074	0.5974248	1	0.5992116	0.4981136	0.4717718
1266	1	0.2886415	0.4933432	0.4534661	0.5658568	0.7771869	0.3714574	0.4713248
1267	1	2.7765842	0.5705519	1	1	2.2025148	1	1.4087658
1268	2.4188466	1.5806265	2.870579	2.306672	1.8671999	1.1957245	1	2.7872544
1269	1.448323	1.878128	1.3626297	1	2.9776126	1.4580478	4.8917965	5.196201
1270	1	1.7008236	1.1817463	2.4606819	2.3760305	2.13794	1.9028334	2.4785403
1271	1.4139074	1.7668093	3.9815654	1	6.2527456	22.873544	1	3.3516212
1272	0.7524123	0.3819266	0.565195	0.4790356	0.5541145	0.6479819	0.3818173	0.4530914
1273	1.6460784	1	1.5272874	1.9461649	1	2.6986403	1.8182248	2.8404709
1274	0.0567643	0.2368465	0.415495	2.1309555	1	1.4795251	0.1386599	1

Table 4

SEQ ID NO	Patient ID							
	141	156	228	264	266	267	268	278
1275	0.5670193	0.3578121	0.4958163	1	1	1.725883	1	0.328276
1276	0.3705888	1	0.558262	0.5504526	0.549737	0.5682824	0.4895366	0.4393403
1277	1.3339402	1.4429185	1	1	2.2757892	1.4315611	2.8786005	1.9198789
1278	1.2637841	1.9310543	1.2330997	2.9510959	2.2619557	2.0538001	2.1429399	2.0843645
1279	1	1.8687822	1.5857734	2.7326013	1	2.785436	1	1.9761187
1280	0.290534	0.3360034	0.5248036	1	0.4013566	1.8672121	0.3460239	0.3075531
1281	1.4872828	11.43158	1.2975527	1.4666637	1	1.0218539	2.0156897	3.0753573
1282	2.1820985	2.0550634	1.3144805	4.1706405	2.7154767	2.4196188	1	3.2154634
1283	0.7748267	0.5537096	1	0.6688002	1	0.5786298	0.5344342	0.284676
1284	1.2478301	2.0169673	1	1	2.147012	1.7241691	2.4507918	1.6532935
1285	1	1.3514287	1.2837174	2.0738228	2.6919461	1.8410019	1	1.6783001
1286	1	1.5153048	1.137925	2.5460032	2.4603757	1.5580714	1	2.6325528
1287	1	1.2420837	1.7909144	1	1.4375954	1.7083886	1	2.8553829
1288	1.5162234	2.3515627	1.825089	1.3441848	1.8531279	1.3692515	2.009866	1.287309
1289	1.5018352	1.9732638	2.3326953	1	2.6386624	2.1621983	1	2.624029
1290	1	1.836976	1	1	1	3.5926325	1	1.9956497
1291	1.5431383	2.2319436	1.8043777	1	3.0148956	2.3253813	1	1
1292	0.1989271	0.2052555	0.0417474	0.2057105	4.6019976	12.235043	1	0.1398702
1293	1	0.4522593	0.7637366	0.5662169	1	0.587156	0.6224508	0.281932
1294	0.8206412	1.6466491	1.108502	1.5212118	1.6276854	1.7605796	1.6389937	1.9086172
1295	1	0.4400853	0.7524365	0.5690851	1	0.5369856	0.5787357	0.2933674
1296	0.6031102	0.2215429	0.4020798	0.2915162	0.3942997	0.6044167	0.3080606	0.4259058
1297	0.2155271	0.3737491	0.3518865	0.3706833	0.2800127	0.4097537	0.1753944	0.5794589
1298	1	1.8035466	1	2.8455941	1	1.4939329	2.2669109	1.9985613
1299	0.386729	10.003713	2.6344747	1	3.5012229	2.5054122	1	1.4283092
1300	1	1	0.69261	1	0.5802527	0.5168515	1	0.230671
1301	1	1.749489	1.935665	3.0655791	1	1.5943167	2.3634177	4.5398104
1302	1	0.3376328	0.1248442	0.3582284	1	1.1883329	0.3720313	0.4500432
1303	0.1216645	1	0.4501272	0.5021166	0.420393	0.5620307	0.1781909	1

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
1	1000	1000			1.243439	1000	1	1
2	1.6933117	1.8643873			0.8354588	0.316661	1.7321107	0.435199
3	1000	1000			1	1	1000	1
4	0.5422463	0.5978163			0.1886367	0.3016081	1	0.2345406
5	0.6674355	0.5002344			0.8375616	0.2775426	0.242161	0.4841635
6	0.7499986	0.6201072			1	0.3718346	0.276016	0.5365668
7	1.7689442	1.2572259			1	1.4952663	1.6797355	0.7400161
8	1	1000			1.2879898	1	1	1
9	1.2608076	0.4909874			0.5277583	1	0.4009279	1
10	1	0.3285348			0.8113925	0.2039801	0.708386	0.3305963
11	1.6196198	0.5921192			0.2103085	0.4723454	0.8102189	0.557351
12	4.4102928	1			1.3322489	1	3.1896117	2.1940344
13	1	1.1831883			0.7377046	0.3948293	2.0876789	1.3558048
14	1	1			1	2.3878657	1	1
15	1	0.4040004			0.6102498	0.4298842	1	0.422064
16	5.0356733	6.6562667			2.0242557	3.0673075	5.439614	1.823374
17	1	2.4310982			1	1.4690661	1	1.1935128
18	5.3365676	1			0.6203411	1.7289611	1	1.4109239
19	1	0.7708311			1	0.5315276	0.6097758	0.671799
20	1000	1000			0.5488364	1	1000	1
21	1	1			1	1	1	1
22	1	6.0348442			1	2.6497581	1	1.9443554
23	1	1			1	1	1	1.5572286
24	3.8040686	1			1	2.563504	1	1.2649478
25	0.8385553	0.7091071			0.7403305	0.3840733	0.3886578	0.5171512
26	1000	1000			1	1	1000	1
27	0.6944816	0.5997202			0.8637005	0.3490183	0.2581986	0.5040152
28	0.3283008	0.2815079			1	0.248178	1	0.4909435
29	1	1000			1	2.7125714	1	3.1794243
30	12.123465	8.9972277			1	5.6311753	1	2.519187
31	1	1			4.9748627	1	1000	3.2600761
32	4.5164533	4.3188155			1.6175835	2.9027822	6.4527024	1.4703037
33	4.983433	4.8413734			1.7669414	1.3247761	4.7921033	1
34	2.46072	2.4499591			1.6469822	2.1118949	1	1.4468366
35	5.9226265	6.0968153			1.8383757	5.4977717	4.9037674	2.0954948
36	3.7938667	4.1485621			1.2470208	2.4327637	3.747358	1.6927074
37	4.8647531	1			1	1	3.8410872	1.7245896
38	2.3544874	3.0288673			0.5784766	1.7335258	2.1205128	1.305205
39	0.6655559	0.8171968			0.2221102	0.5661569	0.6855774	0.4685141
40	5.868357	7.9716341			1.5500328	3.5093	4.9152815	1.7561215
41	4.156	10.12351			0.3449369	1.7553947	7.1114711	2.8524387
42	6.048531	1			1.5147785	6.3341061	2.506425	1
43	0.7675303	0.6774566			1	0.3529103	0.3080975	0.5393162
44	2.5425124	1.3561522			0.3555112	1	1	0.4983107
45	3.569431	6.3548842			1.3107281	5.0115883	7.8404214	1.5655675
46	2.2158473	1			2.4776922	2.9208485	1	1.4653906
47	4.5030744	4.3711109			1.5414909	3.7185792	1	2.4588465
48	1	0.2103079			0.5369844	1	0.5151932	1
49	1000	1000			1	1	1	1

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
50	0.2302741	0.1924462			0.1506559	0.1104295	0.5049122	1.5832178
51	1	1			0.6493776	5.697201	1	1
52	0.7652737	0.6398111			1	0.3525465	0.2846461	0.5421029
53	1000	1			1	1000	1	1
54	1000	1000			1	1	1	1
55	1	1			1	1	1	1
56	4.153261	3.4440367			1	3.1242863	3.5506568	2.2214293
57	0.5878276	0.6191371			0.6220113	0.4494125	1	0.5945598
58	1	0.4683949			0.7959084	0.6271375	0.3730103	0.5217741
59	4.1319258	2.995273			1.2846596	2.9025351	1	1.4264635
60	1	1000			1	1	1	1
61	5.6214162	6.9042965			2.2569201	2.2468979	1	1
62	5.3108966	7.0359924			1	2.6156985	1	1.8739862
63	4.6261345	5.0718903			1.191131	2.4554083	1	1.8423226
64	5.1380913	4.8590317			1.2885633	4.5177994	6.2283836	1.8193594
65	4.6898408	5.6663494			0.8962081	3.0579655	3.9702992	1.3341321
66	0.6637872	0.564549			0.8019552	0.3852401	0.3090142	0.5453761
67	5.4421071	5.5385557			1.4348627	4.8264363	4.0886572	2.0019328
68	12.822814	1000			1	1	1	1
69	5.3769593	4.5710673			1.2118369	3.6877732	3.1482078	2.0489044
70	1	1000			1	1	1000	1
71	0.3364955	1000			1	1	1	1.6577941
72	0.3334017	0.7028577			0.4969611	0.3718552	1	0.3535417
73	1000	1000			1	1	1	1
74	6.3069157	4.3965228			1	3.8354952	1	1
75	1000	1000			1	1	1	1
76	3.5535293	3.0590426			1.6650017	2.0426637	3.2980479	1
77	0.8304992	0.6544282			0.8805329	0.3897704	0.3420576	0.5302694
78	0.6548828	0.5535253			0.8770014	0.289843	0.2527432	0.487694
79	0.6316901	0.5412481			0.8600383	0.2993017	0.2633721	0.4811371
80	6.4977517	10.313482			1.4275985	5.2351585	6.1210307	2.6317786
81	4.8689392	14.159931			2.2721325	9.0718824	6.0770753	1.9669224
82	5.3442911	3.3394168			2.1708569	1.1251203	5.5226962	1.7475581
83	3.0672381	2.7869016			1.3678352	2.884002	1	2.1467394
84	1	1			1	1	1	1
85	0.4453562	1.108791			0.1130673	0.3665836	0.3493032	0.2965622
86	4.7920148	7.0346153			1	2.9932852	4.8217308	1.8670924
87	5.318426	1			1	4.5841889	1	2.6246629
88	1	1			1	1.7192828	2.2578598	1.5221199
89	4.4921961	4.4159215			1.6992097	4.5108873	3.9017518	2.8922083
90	5.0785877	5.6717231			1.3078304	2.9208073	5.2445224	2.6862936
91	1	1			1	1.6580276	1	1.7110142
92	8.8238181	7.9705368			1.263179	3.7076516	5.6674918	1.9260404
93	0.6868911	0.4333981			0.8280941	0.335551	0.3170669	0.5093947
94	3.9142599	1000			1	2.8458652	1	1
95	1000	1000			3.2201054	1	1	1
96	3.1997627	3.4174584			1	2.5563722	5.1681988	1.8914991
97	1	1			0.001	1000	1	1
98	6.1130689	6.3583141			1	1.7731865	1	2.0988819

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
99	0.7617141	0.5614788			0.8546958	0.3351186	0.3287172	0.5816688
100	0.6624843	0.6183922			1	0.3372258	0.2865471	0.441354
101	1	1000			1	3.8733301	1	1
102	4.5555864	1			1	2.1807555	1	1.2617871
103	0.7254476	0.5055827			0.3602299	0.267267	0.4672147	1
104	0.723446	0.4016459			1	0.2919915	0.3023225	0.5056618
105	5.0184743	5.6479462			1.5493587	1	3.8488928	2.1919181
106	6.7672087	6.0391607			1.1958899	5.749471	4.6579761	1.8590041
107	2.3893013	0.7730148			2.1844998	0.6200675	1.2994367	1
108	3.5731347	3.4695358			1.9881361	3.2519309	3.3781602	2.2014253
109	1	1000			0.6615919	1	1	1
110	3.4989161	10.355633			1.7283468	4.0131379	7.0248071	2.5629687
111	3.1091323	3.04557			1.1284399	3.4504885	2.4863698	1.458061
112	1	1000			0.5039838	1	1	0.6203062
113	0.7017116	0.6338995			1	0.3453461	0.2922143	0.6919004
114	0.6025039	0.3848015			1	0.2564149	0.292107	0.5076
115	2.2875265	2.4755673			1.3212218	2.3029088	1	1.5772488
116	0.6494159	0.5702135			0.8885013	0.362925	0.2904644	0.5800659
117	0.4772648	0.3757871			0.8770114	0.3912943	0.2680545	0.611187
118	0.5030522	0.3781997			0.4546136	0.254191	0.2487645	0.422162
119	0.6420084	0.5183468			0.7225424	0.3228113	0.2843816	0.4794919
120	0.5725525	0.4371369			0.6458965	0.3212668	0.2912407	0.5064122
121	5.1752283	1			1	3.0490971	1	1.5465582
122	0.4112964	0.2764356			0.1645201	0.1548195	0.3586807	0.498676
123	10.330386	9.1215696			1.8997387	3.8249794	3.8229967	2.5494412
124	15.89227	1			2.2409228	7.6222897	1	1.6211842
125	3.7027041	1			0.552388	2.8858004	1	1
126	2.1944899	0.7367572			2.3566262	0.6479357	1	0.6776635
127	0.7844078	0.6766064			0.8023274	0.3528142	0.2956615	0.5085345
128	0.7558813	0.5325025			0.8502387	0.3485447	0.2885134	0.4726713
129	1000	1000			0.001	1	1000	1
130	1	1000			1	1000	1	1
131	1.7660222	1000			0.6036698	1	1	1
132	1000	1000			1.3414347	1	1	1
133	4.8575397	8.0874012			1.5619352	3.8317337	1	1.7510777
134	0.6856381	0.5599637			0.8542732	0.3554294	0.3100766	0.5097479
135	1	0.795193			1	0.4654539	0.4292007	0.6347465
136	1.6271714	1.5832464			0.5007139	0.1945969	1	0.7597184
137	1	1			1.3475016	2.0827294	1	1
138	1	0.318801			0.293957	0.2235016	1	0.4270356
139	5.4070271	9.1051176			1.3179117	2.164165	4.5960778	2.0897574
140	1	1000			1.2065347	1	1	2.5424399
141	5.1340216	5.4626942			1.4012383	4.3930034	4.7702636	2.154093
142	6.310381	9.3612463			1.5375972	5.9892748	5.5342226	1.8934333
143	5.3285004	5.1448633			1.7437001	4.3459295	5.3742005	2.4541391
144	3.9239628	5.0056427			0.6871271	1.8012949	2.0943846	1
145	5.2027512	1			0.7637731	5.0295379	1	2.1229465
146	4.3911199	1			1.4590598	2.4261055	1	1.5105303
147	3.8573401	2.622022			1	1.7973824	2.5613019	1

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
148	3.8354005	3.9722845			1.2462259	4.0927064	4.0083098	1.5337475
149	0.6591908	0.5411427			0.9153747	0.2900558	0.2624926	0.5264001
150	2.2450557	1			0.7135679	0.2774259	1	0.4448591
151	4.8557322	1000			1.3824641	3.0095668	1	1
152	3.3405153	2.5164393			1.5119714	2.8083186	3.0413257	1
153	3.151265	1000			1.351013	1.3629816	1	1
154	4.6011843	3.7098301			1.4506889	3.329804	5.0005604	2.3509648
155	5.5757406	1			1	1	1	1
156	4.8100344	1000			1	2.1193768	1	1
157	3.4570551	4.1162467			1	2.3900828	1	1.2901155
158	9.5190259	4.6931819			3.1995102	2.5919282	1	3.5441136
159	1	0.5722954			0.826937	0.4494194	0.3139808	0.5087208
160	0.7106604	0.5273903			0.8522811	0.3250695	0.2956088	0.4827702
161	0.7317129	0.612844			1	0.3757059	0.2886684	0.523989
162	1	1.1426251			0.3942467	0.5100773	1	1
163	2.9000272	1.9073994			2.0408868	1	2.544751	1
164	5.5080977	5.9941611			1	2.0128873	3.2733485	2.6158735
165	1	0.4285766			0.7526253	0.1952147	1	1
166	10.08009	1			1.4584762	2.5004848	1	1
167	0.6085363	0.1327895			1	0.3832839	1.8222595	0.3847456
168	0.79222	11.706822			0.2884535	5.7408909	1	1
169	4.2569764	6.1684476			1.3000431	2.28174	1	1
170	3.0466459	2.7563884			1	1.387205	2.5298599	1
171	5.3944134	1			1.4186541	3.6460944	1	1.7134185
172	6.8595412	2.2370061			1.4976443	1	2.1901028	1.3871221
173	4.9682134	4.1760778			1.8530247	2.4305603	3.9306708	1
174	3.8010357	5.2413625			1.5259363	2.4453593	5.6441688	1.5070696
175	4.7467717	3.6942393			1.6552625	2.6415075	1	1.5889795
176	1	1000			1	1	1	1
177	0.7966888	1.2628431			0.2659769	0.2988487	0.6179804	0.5239561
178	1	1000			1	2.8502444	1	1
179	8.8851291	8.6493015			1.9762941	8.9574375	3.6303813	1
180	2.7745607	2.4873467			1.5692396	2.6125136	2.3462988	1
181	1	1000			1	1.5428757	1	1
182	3.8093857	3.4165029			1	1.935886	2.6445783	1
183	5.363403	6.2023544			1	1.9274775	1	1
184	2.8216668	6.1847652			0.6940693	2.6581666	2.6359903	2.0125709
185	6.2314329	3.5289854			1.4142373	1.4657919	1	1
186	2.6129553	5.4063948			1	2.3918811	3.8252027	1
187	3.1237199	2.7266491			1	1.6382728	3.2195611	1.7275694
188	8.1283496	1			1.6103998	6.268101	6.0392435	2.033652
189	6.2577803	1			1	5.7289749	4.5425374	2.5491812
190	0.7615145	1			0.5606181	0.636809	1.3979986	1
191	1	1000			1	1	1	1
192	0.7711675	0.6027214			0.8479951	0.3635977	0.3198075	0.5598256
193	6.5468094	6.1055791			1	7.0088529	5.676389	2.4501699
194	1	1.448295			0.5348715	0.4295204	0.679882	1
195	0.6969489	0.4318612			0.8665981	0.3259756	0.2874729	0.4991964
196	5.0141385	1			1	2.6900435	3.002299	2.1426451

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
197	0.6653896	0.5743374			1	0.3791448	0.2842352	0.4734144
198	1	1000			0.7857668	2.9149042	1	1.8146376
199	4.2261101	1			1	1	2.0297233	1
200	8.7466608	1000			1	1	1	1
201	4.0513809	4.567572			1.5187024	2.6902631	2.7192492	1.4043053
202	1	1000			1	1	1	1
203	1	1000			1	4.0355079	1	1.8978179
204	1	1000			0.4960757	8.3941703	1	2.4416736
205	3.2793041	1			1.1639357	1.339225	1	1.5632422
206	3.3782622	4.5654029			2.1324635	3.7039038	4.5807276	1
207	3.6560527	4.0579962			1.453828	2.8914015	3.75656	1
208	1	1			2.2120372	1.7328531	1	1000
209	0.4388303	0.3926315			0.4694539	0.4540664	1	0.6168543
210	0.880444	0.6305023			1	0.4473602	0.3550847	0.4920936
211	1	1000			1.2510654	10.683495	1	2.3958626
212	3.7663549	1			0.4021849	2.4803043	2.4032905	1
213	0.6489058	0.5531438			0.8548769	0.2927054	0.2476478	0.4718327
214	4.8196597	4.1486602			1.5992017	3.0704719	4.2254815	1.8388328
215	1	1000			1	3.2882145	1	2.1107119
216	0.6591853	0.4408793			1	0.286562	0.250663	0.5184733
217	3.8721106	2.9602943			1.1579895	1.509475	2.8954253	1.364352
218	5.5967154	1			1.3668492	1	2.5886403	1.3698662
219	8.6096009	1000			1.3454894	1	1	1.4318359
220	5.32147	1			1	1.8919695	3.2999633	1
221	0.5985119	0.4947588			1	0.3133388	0.2408675	0.5434523
222	0.6443815	0.5360342			0.8790136	0.3543517	0.2683402	0.5576369
223	0.5278195	0.4912671			1	0.263835	0.2399984	0.5364804
224	0.5350828	0.4404832			0.8110605	0.3863384	0.2700436	0.5189765
225	0.472685	0.3345917			0.8516171	0.4187918	0.3219483	0.6708885
226	8.0087936	1000			1	2.475019	1	1
227	4.6524321	4.0952711			1.6047152	2.5369125	4.2223416	1.8906407
228	1	1000			0.5892622	2.150629	1	1
229	1	1000			1	1.7414263	1	1
230	2.8559983	1.8423181			2.0089929	2.4593757	4.0046776	1.9149006
231	0.7628452	0.5944954			1	0.3407059	0.2700748	0.50717
232	1000	1000			3.6254193	1	1000	1
233	1	1000			1	1000	1	2.3009742
234	1000	1000			1	1	1	1
235	0.892276	0.5075375			1	0.5254117	0.3692873	0.4166192
236	9.1215132	7.546531			1.2007294	6.7667771	5.2006352	1.7895322
237	1	1			1	1	1	1.6129202
238	0.1866111	0.1527441			0.1702952	0.6811922	0.3325596	0.6380599
239	0.6254138	0.4805959			1	0.2753323	0.2404845	0.4893145
240	3.812535	1.2503552			0.3925061	0.523428	1	0.7104798
241	3.7460731	1.35665			0.4320163	0.6034358	1.2086562	0.7529617
242	2.6900737	3.7570352			1	3.661065	1.5588046	1
243	5.1710533	6.8089163			1.2620622	4.3290713	4.9569364	2.1909574
244	6.1362283	1000			1.2352693	3.2560974	1	1
245	2.4898674	1.5263948			1.5127663	1.5209037	4.2142888	1

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
246	3.6633215	4.1655809			1	1.5127355	3.0260543	2.0956265
247	6.6847288	11.218389			2.0494589	7.0085509	6.1427734	2.4476508
248	1	1			1	2.9107788	1	1
249	1.0845979	1.5698828			0.5450635	0.3338624	1	1
250	9.8232026	6.5679753			1.2153784	5.4137965	4.983019	2.3713159
251	3.8829002	2.9191789			1	1.638513	1	2.1330006
252	38.200556	1000			1	1	1	1
253	1	1			2.1196556	2.8309426	1	1
254	0.7729639	0.5601344			0.9097807	0.300956	0.2683529	0.4958862
255	1.8485243	1			0.6655761	0.3844233	1	0.3991144
256	1000	1000			1	1	1	1
257	0.6261955	0.5797329			1	0.2714747	0.2254852	0.4835827
258	3.5965269	4.4741938			1	1.9473215	1	1.8279074
259	5.0230152	1			1.8946981	2.3583775	2.2868084	2.145818
260	0.6332759	0.1729094			1	0.1337056	1	1
261	4.2247185	4.6111073			1.0962542	3.6681899	3.8101789	1.6998731
262	1000	1000			1	1000	1	1
263	1000	1			1.8370577	1000	1	1000
264	4.885495	1000			2.4666953	3.861922	1	1
265	1	0.6467145			1	0.3601794	0.2875539	1
266	0.0192671	1			1	0.0129869	1	0.152751
267	7.5882157	6.5261622			1.2165254	5.9370666	4.410074	1.8961623
268	4.5006238	8.2831138			1.7132349	2.9901346	9.8087442	2.44072
269	7.8270948	10.743486			2.5985871	5.9014145	1	1.9003428
270	3.3947627	4.9953347			1.823465	3.1575291	3.4810483	1.539486
271	0.6575885	0.6054465			1	0.3058981	0.2474044	0.5358507
272	0.5381046	0.3629212			1	0.440297	0.2956945	0.6985666
273	3.3121885	4.1457498			1.9816668	3.0549453	1	2.072088
274	1.450313	0.5415678			0.3827468	0.237168	1	0.2579579
275	0.747925	0.5742356			1	0.3924406	0.2760965	0.5803184
276	3.8245333	1000			1	1	1	1.7895322
277	1000	1000			1	1000	1000	1
278	9.4791111	1000			1	1.7687934	1	1.3368256
279	3.6950526	4.9904115			1.4299025	2.5189835	3.2773943	1.5584908
280	2.6894749	2.4701172			0.6922483	1	1	0.4528724
281	1	0.5438241			0.8400266	0.3272523	0.2987887	0.508183
282	2.416364	1.8595767			1	2.2998955	4.0677498	1.5966678
283	4.5008012	3.5595785			1.8705412	2.5434746	1	1
284	2.2152707	3.404113			0.6775086	1.5784454	2.0111472	1.2433043
285	0.6313741	0.8171605			0.2141418	0.5151156	0.6268432	0.4265583
286	5.0973836	4.0816823			1	1.95225	1	1
287	1	1			0.4861353	1	1	2.3896784
288	5.7244717	1			1	4.1969033	1	2.2668571
289	5.1817653	4.7345118			1.4300031	4.2208315	3.2876887	2.282537
290	4.4566448	3.8941702			1.3915796	3.7458639	3.8101789	2.2658811
291	4.6157996	3.0824707			1.5039024	4.7531759	2.4317961	1.8112846
292	3.935207	4.9669143			1.2852532	1.4885601	2.5007518	1
293	0.4873059	0.4470706			1.7912492	0.5224396	0.3553893	0.4146032
294	6.3473184	1000			0.7861692	1	1	1.8707955

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
295	7.831658	4.7919993			1	5.8285591	4.5425374	1
296	0.7602005	0.6397057			1	0.3474053	0.269941	0.5382623
297	0.6539568	0.5489327	2.1599741	0.3134934	1	0.3227769	0.2472536	0.4852561
298	4.5869128	5.0965501	1.2571986	1	1.6213061	1.7614832	3.8252027	1.1487555
299	0.6074773	0.4963139	2.4562901	0.3463832	1	0.372521	0.2048498	0.4735242
300	3.5888644	3.2403706	0.5290359	1	1	1.6061283	3.2397538	1
301	0.4563842	0.4018712	2.2761074	1	1	0.3316659	1.8162682	1
302	5.4477126	1000	1	2.034484	1.3045203	1.973158	1	1.9619436
303	1.9993014	0.6826051	1	1	0.2377151	0.6996498	1	1
304	1.9000272	0.3801544	0.1773284	0.417288	1.3890039	0.2644665	1	1
305	2.807179	2.5412081	0.8746437	2.4284006	1	2.8840913	1	1
306	0.2543926	0.2328132	0.0858767	1	0.3861072	0.1919062	0.2290601	0.4213525
307	4.6222978	5.0008284	1.1562178	1.6905853	2.1142528	2.7339942	1	1.6027336
308	1	1.9611409	1	1	0.5733756	1.2460725	1	0.4394626
309	0.231261	0.4154673	0.4870855	0.677961	0.2093728	0.1278231	0.264967	0.564325
310	14.968751	1.6278063	0.0767331	1	1.7067153	0.2219091	1	0.6627989
311	1	1	1	0.6476018	1.3993468	0.5401077	1	1
312	5.4832307	9.1345699	0.5894057	1	2.2191001	8.3971562	11.459077	2.1384749
313	3.3647503	1000	1.8061615	1	2.1822159	1.3980503	1	1
314	2.1333618	1	0.4086697	1	0.2994705	1	1	1
315	0.0737529	0.0765991	0.0195843	0.1411293	0.1735651	0.5815462	0.2818665	0.6190465
316	1	1.7129621	0.6809456	2.3144454	1.4912857	2.8478214	5.4620239	1
317	3.720014	5.5693596	1	1	1.7388205	2.2496915	9.8354247	1.4720788
318	1000	1	1	1000	12.954814	7.5972976	1	1
319	3.4094722	3.7097139	0.7227632	1	1.9273667	5.0580582	4.9917743	1.8458939
320	1	0.1922318	0.2310111	0.039974	0.4778851	0.0409992	1	0.1321869
321	1	0.7938123	1	0.3784577	0.8479045	1	0.3845209	0.598668
322	3.1616609	1	0.4770994	2.3216937	1	2.2670851	5.3316967	1
323	1	0.5913017	1.9132702	0.3946628	1	0.4188261	0.2688626	0.4591973
324	1.3738266	2.512944	0.1856647	1.1379293	0.3620308	0.8401783	1	1
325	0.6813134	1	1	1	1	0.5744831	1	1
326	0.5936604	0.6257571	2.2109564	0.379839	1	0.4006157	0.2398146	0.4880701
327	1	1000	2.5837144	2.1718463	1.5802264	2.0924147	1	1
328	0.646749	0.3110764	0.5098051	2.0853747	0.9741822	0.7932828	1	1.4497946
329	0.6551877	0.5699046	1.2042703	0.4693271	0.7452404	0.2971258	0.3008703	0.4593365
330	2.4955395	2.2695976	1.2949619	1	1.8550772	6.9208759	1	1.1762015
331	1	1000	1	2.2020177	1	3.7718857	1	1
332	1	2.4054065	1.4832813	1	1	1.6145093	1	1
333	2.623329	1	1	1	2.5364594	1.8347917	2.2763382	1
334	0.6716992	0.5597784	2.0731041	0.3669974	1	0.3278564	0.2320685	0.4430908
335	0.7428795	0.3119375	1.3806091	0.8439455	1	0.4061482	0.357045	0.4002151
336	1	1	1	0.7752426	2.9589779	1.460081	1	1.6688064
337	0.685688	0.5692324	2.0393018	0.3353242	1	0.3521896	0.2457109	0.4046776
338	16.089599	1.8509365	0.1259138	1	1.5980749	0.24222	1	0.625162
339	3.5600386	4.7339268	0.5715451	1.4442306	1.0533132	1.6510537	3.6480288	1.4077852
340	1	1000	1	1000	1	6.7593364	1	1
341	1	1000	2.9283991	1	1	1.6624893	1	2.5168408
342	1	1	1	1	1	2.2857829	1	2.8927104
343	6.8203139	7.6126805	0.5201913	2.2363556	1	1.8776716	1	1

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
344	1.3491924	0.7033881	0.6869861	0.2663488	1	0.3015532	0.545229	0.4628021
345	1.5783354	1	1	1	1	0.4431868	1	1
346	0.7009464	0.5937542	1.7821578	0.2256568	1	0.2185869	0.2369488	0.4538859
347	0.6303262	0.5317431	2.1574396	0.2942559	1	0.310806	0.2052166	0.4503675
348	5.4557799	9.2065873	1.8130467	1	2.6035472	4.3619228	5.7904291	1.6130503
349	4.2169174	1	1	2.9922226	1.4098204	3.7153188	6.6468011	1
350	1	0.5276192	0.3676238	0.5906542	0.542347	0.4841448	1	0.6026335
351	4.7188385	1	1	1.5761212	1	2.416482	6.2844774	1
352	4.7130889	1000	1	1	1	2.4760829	4.6948132	1
353	5.454244	5.9677391	0.3416991	1	0.4682365	2.6545973	5.3771066	1.8636472
354	4.4647841	2.2323008	0.2992089	0.3527762	1	0.3140458	1	1
355	1	1	0.001	1	1	0.2747695	1	1
356	1000	1000	1	1000	1	3.236775	1000	1
357	1	1	0.1576659	0.2985308	0.2738447	0.3392645	0.3719533	0.5917624
358	2.8173088	1.7578563	1.9257272	1.4219835	1	0.6606068	2.3736025	1
359	0.7143974	0.6100463	1.8509612	0.3313535	1	0.3254402	0.2544621	0.4735467
360	1	0.9368081	0.2132153	0.3197974	0.5151517	0.3409668	1.3471451	0.4097641
361	1.7381611	1	3.1378318	1	0.5289153	0.859638	1	1
362	1000	1	1	1	1	2.3196984	1	1
363	4.1906032	3.0187955	1	1.8067097	1.4297214	1.909823	3.6194793	1
364	3.8615927	1	0.8469443	1.7125152	1	1.8242416	3.2964079	1.3318929
365	1000	1	1000	1000	1	2.9125429	1	1
366	1	6.4611681	2.0536492	1	1.7260931	3.2606895	3.609625	1
367	2.3971856	1.7753692	0.2972753	1.502034	1	0.3713884	1	1
368	2.748679	1	1.9067248	1.991435	1	1.6658596	3.6597771	1.6310485
369	3.9211351	1	4.0417708	0.4710614	0.4905219	1.7802496	0.4082027	2.7119405
370	0.4960107	0.4753202	0.8453225	0.3169347	1	0.3930789	0.2957495	0.7352924
371	4.3227064	4.3699083	0.3751351	2.6821081	1.9146695	0.6141575	1	1
372	1.7181566	1	5.1037694	1	1.6399092	4.7820669	3.2060662	1
373	2.2182924	3.0544028	0.2260245	1	0.5538066	1.8565165	2.7548454	1
374	4.5390194	5.4176365	4.5263361	1.7792251	1.3782888	2.3087502	1	1
375	6.3934708	3.2719266	0.4520554	1	1	4.1020484	3.1801757	4.1458943
376	3.8763355	7.5083041	0.3236794	1	1.4012483	5.6609586	1	1.4785658
377	0.1052401	0.4227305	0.7712852	0.6976914	0.5715042	0.6699488	0.3956909	0.4012188
378	1	0.589772	0.3011769	1	1	0.5177583	1	0.6990061
379	0.6685943	0.5360124	2.0910417	0.3838389	1	0.5311844	0.2526068	0.4888265
380	1	1.1001399	0.4932061	0.3955732	1	0.7461608	1	0.001
381	0.5801762	0.5843982	1.9644801	0.3538694	1	0.3348165	0.213261	0.4359675
382	1	1	1	1.5346589	1	2.262548	5.5142739	1
383	0.768057	1	0.5098094	0.4390073	1	0.5243272	1	1
384	3.5455065	1	0.539104	1	1	3.0670536	3.5550999	1.6180622
385	1	1	1.7678315	2.2268475	1	6.7411603	14.510929	1
386	0.6346731	0.575391	1.8585996	0.3088776	1	0.2735546	0.2428307	0.4265837
387	0.5229792	0.4482914	2.3043091	0.1965932	1	0.2774671	0.17517	0.4288727
388	0.4764553	0.3962503	1	0.4760032	1	0.4443468	1	1
389	2.5368792	3.759455	0.8050702	1.3824919	0.4400551	1.5613607	1	1
390	1	0.7901353	0.1250399	0.4418857	0.3326724	0.2334477	0.8026164	0.5023212
391	1.3377763	0.7818548	0.4142212	0.4039869	0.6675079	0.1668042	0.5955241	0.6682341
392	5.4987774	9.429772	0.8552826	1	2.3077994	6.4204907	1	1.6618997

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
393	1	1	0.3515633	1	0.4210295	0.4671974	1	1
394	0.5998204	0.5309147	2.1145942	0.3118742	1	0.4180848	0.2169792	0.4689426
395	3.2699339	1.9599382	1	1.7462132	1.7799103	1.5305958	2.5271274	1
396	1	1000	2.3088433	0.9538532	1	1.2721972	1	1.560534
397	2.6427847	1	0.6694212	1.8651012	1.4213405	3.6752805	4.5860092	1
398	2.6224419	3.1938487	0.4864372	1	1	4.6090575	4.5796727	1
399	1	0.4448179	0.4609381	0.1694497	0.2160232	0.4730044	0.395451	1
400	0.2844771	1	1	0.3534826	1	0.2304824	1	1
401	0.4838239	1.5633391	0.1375142	0.3416628	0.2224423	0.2161433	0.6918741	0.4857771
402	1	1	1	1	1	0.001	1	1
403	1.3286556	1	1	0.1685565	0.1549117	1	0.5184839	1
404	0.5017604	0.5183141	0.7946711	0.6311545	0.3084451	0.2635467	1	0.3953256
405	0.7417262	0.1861204	0.0556108	0.5072076	0.1403834	0.1966836	0.7501076	0.3314324
406	3.5309965	2.69994	1.9597743	1	1	4.2990752	3.0134448	1.5678506
407	0.6231849	1.38337	0.5188339	0.1984333	0.258431	0.353885	0.1163598	0.2801701
408	3.9215232	1	1	1.6185259	1.8742638	2.6807563	4.0462317	1.8966299
409	0.0889116	1	0.2821558	1	1	0.2409227	1	0.001
410	5.8600236	6.4307094	1.5724986	3.5134345	2.5221625	4.5857059	7.4428252	1.8933975
411	0.5126331	0.8255427	0.3741781	0.5922441	0.35203	0.149541	0.6239914	0.7178712
412	0.5382265	0.5160977	2.7689129	0.2315168	1	0.285601	0.1794455	0.5291413
413	6.3647281	1	1	1	0.7860485	1.8037522	1	1
414	0.7409666	1.1390789	4.5949046	0.8161989	0.7785227	1	1	1
415	0.1759047	1	8.9727434	0.9247122	1	1	1	1
416	5.7196868	1	1	1.9129319	0.8129923	4.1400617	3.1434804	1.9916446
417	3.971967	1	1	1.8001626	2.3562439	1.5727551	6.2021609	1
418	1	1	1	1.8472974	1	2.3448759	1	1
419	2.8862103	3.3211373	1	2.0622594	0.5193069	1.5552516	4.1358488	1
420	0.8496332	1.4928876	0.5249515	4.0760238	1	0.1755216	1	0.617521
421	1.3899999	1	1	0.4398929	0.1945125	1	0.4829342	1
422	2.6042116	1	0.2655965	1	1	0.4967953	1	1
423	2.7067737	1	0.3355526	1	1.8949597	3.7014876	4.4725579	1.9279344
424	0.6178622	0.5519666	0.3606333	1	0.2406328	0.3697136	1	0.5706473
425	4.0418332	1	1	1.8668353	1.4931671	2.539006	1	1.7162418
426	1	0.7473485	1	1	1	0.5819306	1	1
427	5.5917531	6.3739668	1.6250088	1	2.0992818	6.3493581	5.1374913	3.502278
428	0.6475141	0.5675102	1.8661061	0.2578859	1	0.3919944	0.2327557	0.4226777
429	3.3737379	3.6205759	1	1	1.7336993	4.0515218	2.6621014	1
430	5.4134088	1000	1	2.9811157	1	1	6.1704092	1
431	1	1	1.1426837	1.2408713	0.1698224	1.9424892	1	1
432	0.1885462	0.0947952	0.0738787	0.2836634	0.0644518	0.1008266	0.3115875	1
433	2.9921712	2.0061368	2.6517867	1	1.415676	3.8259885	2.6215698	1.513709
434	0.6976197	0.5995822	2.0780801	0.3111754	1	0.2843037	0.2381405	0.4735108
435	1000	1000	1	1	1000	1	1	1
436	0.2538271	0.3158616	1	1	1	0.2005756	1	1
437	0.734352	0.5715796	1.135402	0.3719147	1	0.5397439	0.3641816	0.4415703
438	1	1000	1	1.966726	1.1785344	4.4666551	1	1
439	7.8534811	6.1257735	0.4808827	1	1	6.8003219	7.8296177	1.3798669
440	3.1011261	3.1163521	1	1.2050002	1.6161548	2.5604495	3.2876887	1.4972975
441	4.4080251	3.8816641	1.822123	1	1	1.4470461	4.0298336	1.4454352

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
442	1	1	1	0.4502972	1	1	1	1
443	0.7409666	0.6685476	1.5980576	0.3254608	1	0.35232	0.2676036	0.4655018
444	0.6893252	0.5847507	2.1082701	0.3888945	0.8184857	0.4414982	0.2198832	0.492348
445	3.8567468	5.5896921	0.3409838	1	1	2.1656339	2.2780331	1.1885613
446	0.3708936	0.7293124	0.384371	0.7596241	0.4921518	0.4076308	1	0.6494235
447	1	1000	1.3795625	2.2853571	1	2.77951	2.1886567	1
448	4.0781885	1	0.8324367	2.0335396	1.4182618	2.1498945	3.8694871	1
449	2.9154741	4.9138668	0.6284199	2.0683673	1.3641629	5.1464333	5.4582761	1.2094072
450	0.7720879	0.6435644	1	1.3090314	0.2677879	0.436206	1	0.001
451	3.8571571	2.9022182	2.0954885	1	1.429973	2.0016645	2.5212004	1
452	1000	1000	1	1	1.6353314	1	1	2.3304168
453	0.8004036	1.6473612	0.5001212	0.584096	0.4407695	0.3753696	1	0.6941147
454	1000	1	1	3.5093404	1	2.1746876	1	2.2692237
455	0.6979413	0.653033	2.0612443	0.3493363	1	0.3878828	0.2398421	0.4851337
456	1	0.4015696	1	1	1	0.58156	1	0.3365394
457	0.6860151	0.6017041	0.7467487	0.2845882	1	0.4762442	1	1
458	1	1	1	2.3922332	1	7.335563	1	1.776875
459	3.3996307	1	1	1.4908807	1	1.5867921	2.7790985	2.0908936
460	1000	1000	1000	1000	1000	1	1000	1000
461	0.7353722	0.6643147	1.9520097	0.3286618	0.8135255	0.3464786	0.2939702	0.4794482
462	1	1	0.7690138	2.2183387	1	6.2387639	2.1863708	1.5998613
463	6.3576256	6.1600727	0.6230828	1.6927827	2.1306625	7.3760817	3.3497101	2.4203368
464	4.6258684	5.708246	1.3666865	1	2.1512778	5.194077	1	1.7324785
465	4.6236839	1	1	1	1.6808279	1.6782492	3.9244655	1.4252638
466	1.2217577	0.4903552	1	1	0.5642703	0.3580927	2.6109005	1.7916807
467	3.4967703	4.0637006	1.1261253	1	1.8987024	4.5659716	3.8072612	1.4492692
468	3.8281206	2.5255228	2.8218344	1.2306667	1.6742781	4.2288007	3.1893559	1.631288
469	1	1	1	1	1	2.1670548	3.0417909	2.0597943
470	0.7157004	0.6283368	1.8084324	0.4747463	0.76985	0.3940674	0.2511934	0.4724145
471	0.1897604	1	0.001	0.3367984	0.2671541	0.1883026	0.5195404	0.2145376
472	0.5440704	0.4919502	2.4258211	0.265877	0.816081	0.2911129	0.1843621	0.4412936
473	5.7982524	7.8055845	1	1.4797099	1	7.6915621	5.9631871	2.2047261
474	1.4700569	1.6113834	0.193551	1	0.2751124	0.7780377	1	0.7447509
475	1000	1000	1	2.6402254	1	3.3123898	1000	1
476	8.8279043	9.3358852	0.4169286	1	1.5242058	6.1127461	8.0045196	2.5139299
477	7.1534495	6.6712544	1	1.7636613	1	3.5671162	4.2286262	1
478	1	1	1.268898	0.6651311	0.2700819	1.70725	1	0.6047548
479	5.9062148	1	1	1.7850913	1.7801014	2.1116616	5.8047953	1.4850882
480	1	1000	28.390834	19.129319	1	1	1	1
481	1	1	0.3647033	1	1	0.3368415	1	1
482	1	1000	1	2.1204292	1	4.3081084	3.9706956	2.2875503
483	0.6575219	0.6353711	2.1454237	0.3366878	0.8065431	0.2822788	0.2216675	0.4589696
484	1	0.741179	0.2636826	0.8114434	0.1772374	0.2528044	1	0.3171156
485	4.5385426	4.987701	1	2.4107841	1	2.9893658	4.4983553	1
486	0.0782661	0.0964338	0.0618295	0.1899255	0.0532236	0.0183958	0.1714912	0.2235455
487	5.8543849	3.8472777	0.6280968	1.8617863	1.5007432	2.3536482	1.9631044	1
488	0.6849118	0.5990045	2.0141529	0.4769927	0.8267056	0.3699195	0.2192119	0.4702505
489	1	1	1	2.5551065	1.630009	4.8487584	5.3331265	1.9318829
490	4.1000116	1	1	1.9578561	2.0582725	3.0299188	5.3424389	1.8029235

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
491	0.7757362	0.8363375	0.4306492	0.6371634	1	0.3579623	1	0.6003755
492	5.73703	9.0413335	0.4487636	1.7047	1.5193865	4.1978368	5.0520078	1.7502807
493	1	1.4661095	0.3412565	0.5083849	1	0.4732584	1	0.6702454
494	6.0178588	3.6967608	0.2947238	1.8677036	1	3.6579624	4.1938483	1.5364343
495	1	0.219802	1	0.0943023	0.4774424	0.1344744	1	0.1700911
496	1	1	0.5999536	0.8298189	0.3964903	0.6092772	0.6959295	1
497	0.5186323	1	1	1	0.4309498	0.2541154	1	1
498	1	1000	1	3.0158188	1.8377217	2.0146994	1000	2.2998628
499	5.8710738	5.2694196	1.3910216	1.7369603	1.8694043	2.8187657	2.6696059	1
500	1	1	3.3592229	0.0952339	1	2.3577735	0.1471308	1.7693913
501	3.9443721	4.1392679	0.6335722	1	1	2.7292786	3.9834209	1.6085091
502	1	1	1	0.7272045	1	0.2807962	1	0.5682248
503	7.8605725	1	0.5332895	1.9844639	1.1286512	2.3559133	7.2199052	1.5305545
504	8.2167011	1	1	1.8289275	0.7087083	3.0239128	2.9263138	1.5571073
505	1.5136755	1	0.1123001	0.3626145	1	0.4307491	1	0.3018498
506	2.9948325	4.4565319	0.8041881	1.594743	1	4.6035937	1	2.0729042
507	4.4858199	1	0.4464931	1	1	1.9517695	5.4129638	1
508	1	1000	1	1	1.5816752	3.7332958	12.152294	1.4770369
509	1	1000	1	1	1	2.632241	1000	1
510	0.4313564	1	1	0.6388528	1	1	1	1
511	13.113224	39.884687	2.0704568	6.9333458	2.6799215	1.9443151	10.58676	5.3223961
512	1	0.6203652	1	1	0.001	0.5275739	0.7599682	0.3833046
513	1	0.7210064	1.3987783	0.272377	1	1	0.2862089	0.4753499
514	7.2640401	7.0616586	0.6701985	2.392352	1	5.057715	7.508865	2.265265
515	1	1	2.3247334	2.2643087	0.363218	1.9061301	5.2681401	1.1509374
516	1	1	1	1.5315372	1	1	3.5646583	1
517	0.3556906	1.2049886	0.1062506	0.6074216	1	0.3751637	0.3029258	0.2033305
518	1000	1000	1	1	1	1.2704743	1	1
519	1	1	0.2239175	0.915802	1	0.623273	1	0.4433737
520	0.2130473	0.1818003	0.3055764	0.6998802	1	0.09631	1	0.7045274
521	5.2571815	2.944242	4.7022389	1	2.3126287	3.2968701	1.5622946	1
522	6.3082741	4.7820619	0.5407876	1	1.6382994	3.5147295	3.2068417	1.4266263
523	1	1000	1	1	2.1432088	2.2275068	1	1
524	1	1	2.1051098	0.3534308	1	0.3741546	0.2513426	0.4940998
525	3.5784463	3.1216823	0.4389147	3.8932499	1	2.1760055	1	1.5481147
526	4.6967548	2.5297702	1	1	1	2.9017594	4.5749319	1.117655
527	4.9116429	1	0.5000301	2.0978125	0.7563781	1.9081688	1	1
528	1	1000	1	1.9381688	1.1926402	2.8418153	3.8448002	1
529	1	1	1	1	0.001	1	1	0.001
530	1.672359	0.2318212	1	1	0.001	0.3167022	1	1
531	1	1000	1	1.5314885	1	2.1564017	1000	1
532	1	1	1	1	1	1.6973383	1	2.2491122
533	0.3694687	0.7788682	0.0705681	0.722776	0.1086807	0.2023053	0.5152399	0.1948497
534	4.4858199	3.5485003	0.6650504	1.3841598	1.6417504	2.8806524	4.2639856	1.6677486
535	2.0463354	1000	1	2.6495163	0.001	1.2826306	1000	1
536	1	0.6327005	2.0904535	0.3678743	1	0.2721749	0.2180916	0.4847526
537	1	1000	1.4682376	1.1881828	2.095861	1.6981071	1	2.771015
538	8.7301937	2.4622582	1	2.1370744	1	4.0847784	5.4381266	2.3376086
539	4.8222767	5.5919266	0.5576578	3.8310346	1	2.2487168	1	1

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
540	5.5018269	3.9540521	1	2.0100427	1	1.6246682	1.6391699	1
541	6.1712363	1000	0.7083501	2.2340745	1	2.9306298	1	1
542	3.0218675	3.3220747	1.4913681	1.6325638	1.8119148	3.9030173	5.1012515	1
543	1	0.5615333	2.11199	0.3189043	1	0.4832525	0.1992958	0.4629285
544	1	0.2675229	0.8532449	0.5117159	1	0.1438301	0.7228959	0.297181
545	1	1000	1	2.3073527	0.3723435	2.7898816	2.9885384	1
546	1000	1000	1	1	4.2235856	2.7159691	1	1
547	8.0380852	1	0.6772171	1.980956	1	1.9122049	5.5917978	1
548	4.4630764	3.9784104	1	2.2223287	1	1.6589955	4.4715523	1.4324718
549	7.6021601	5.0377328	0.5765615	1.8148069	1	1.7893583	4.6465488	1.3179013
550	1	5.4820383	1.3908805	1	1.9656595	2.3178794	1	1
551	0.2027623	0.2416096	0.1000093	0.156031	0.1155525	0.0851696	0.1113123	0.1135364
552	1000	1000	1	1000	1	1.9409654	1000	1
553	1	1	0.1663093	0.3173584	1	0.722164	0.6078375	0.485282
554	1	0.5407576	2.7478387	0.2285032	1	0.2597303	0.1683732	0.4829661
555	1	1			1	1	1	1
556	6.0610006	1			1	3.9354158	2.4996517	1.6575742
557	1.60221	1			0.7875375	0.5284525	1.7833681	0.4115028
558	5.468316	1000			1.2812086	1.9282394	1	0.7720849
559	4.9302447	1			0.622303	2.222901	1	1
560	1	1000			1	5.3550193	1	1
561	2.9486413	1000			0.7516997	1.3929914	1.7632085	1
562	1.8739847	1.4662367			1.5135812	1.6729639	1.9949071	0.5738306
563	0.6032025	0.5634154			1	0.3248224	0.2296354	0.4479362
564	3.0919278	1000			1.2593759	3.0669163	4.6843078	1
565	0.7370799	0.7456917			1	0.3861531	0.2717874	0.4784663
566	6.3128372	5.9233391			1	4.8007441	5.212904	2.2443666
567	48.854008	1			0.566534	4.4318542	1	16.271202
568	0.7173914	0.6940249			1	0.3655951	0.2737591	0.4964353
569	1.7412106	1			1.4578223	0.7660804	0.3607726	1
570	0.4264439	0.4008284			0.5344993	0.1368837	0.129667	0.3438634
571	1	1			1	0.4526043	0.3520455	1
572	6.4263829	1000			1	6.0343307	1	1
573	6.0093148	1			1	5.2029522	7.0911852	2.2235536
574	0.7777544	1			1	0.472064	1	0.4981443
575	1	1			1	0.481914	0.2944228	0.5643982
576	0.789797	0.7085294			0.6736753	0.3702215	0.2993239	0.4979905
577	0.7953304	1			0.6595797	0.3966894	1	0.6830521
578	4.4365072	1			1.3022163	2.1375872	2.3897175	1.2062411
579	0.7230856	0.776234			0.7869238	0.3605157	0.2697067	0.4585487
580	1.4933826	0.6080443			0.4327206	0.5514747	0.4815776	1
581	3.5197079	1			2.0570752	5.6537719	3.9533305	2.3241332
582	3.9853792	6.5728222			1.3813071	2.4830088	3.2757748	1.7309789
583	4.5743101	4.5237569			1.3239585	3.5208179	3.9695068	2.0032163
584	4.8777605	1			1	1.7485101	2.2216644	1.3912331
585	5.2880588	5.5112108			1.9327091	1.2479944	6.6668551	1.9409961
586	4.4374276	1			1	1.8427471	3.2628759	1
587	1.2622714	1			0.5353142	0.4497557	1	0.3819297
588	1	2.1372731			0.2366084	1.0806891	1	1

Table 4

SEQ ID	Patient ID							
NO	295	296	300	322	339	341	356	360
589	1.3956165	1.2884622			0.5603967	1	1	1.6293209
590	1	0.5525225			1	0.3944586	0.2727267	0.456447
591	1	0.578523			0.7705643	0.4961226	0.3355503	0.4206877
592	0.7785583	0.6578981			0.890926	0.4222033	0.2361665	0.4381416
593	1.6879169	1			0.6493173	0.7374572	0.4575458	1
594	1.1971734	1			0.5774705	0.3951244	1	0.3777496
595	3.9682744	4.7462222			1	1.6099035	2.5639436	1.5150163
596	1	0.853498			0.7779392	0.4153117	0.3662237	0.4660204
597	11.89532	1			1	3.0093884	1	1
598	5.0431695	1000			1	2.650067	1	1
599	5.5717985	1			0.566866	2.939965	1	1
600	10.994489	1			0.311061	3.6947951	1	1
601	0.3483774	0.239128			0.5389765	0.3789664	0.2975037	0.6481437
602	4.8287859	1			1	1.9291111	1	1
603	2.0279165	1.6499773			1	1.9126236	1	1.3178144
604	1.3920736	1			1	1.38483	1	1.6649161
605	0.6201798	0.6689109			1	0.4760726	0.4347315	1
606	4.7984464	10.594801			1.4472279	3.401925	3.9423588	2.4027716
607	5.1247401	3.9832791			1.4393902	2.994912	4.2044881	1.7284952
608	2.1875204	1			1.6242339	1.5146025	2.985398	1
609	1	1			0.1937277	1.2655596	1	1
610	1	1			0.8190893	0.6729004	0.5358995	0.3155772
611	1	1			0.3347651	1	1	1
612	0.7719825	0.6717558			1	0.3159266	0.2757252	0.464479
613	0.5625281	0.5684549			1	0.2487821	0.2266312	0.4976039
614	0.6610593	0.5986956			0.8861067	0.2378613	0.2521392	0.4008392
615	0.8141817	0.8083023			0.7823158	0.3726102	0.3243955	0.477559
616	3.3469636	2.4973385			1.3594945	2.5359241	2.2352736	1.9556503
617	0.7863151	0.2506095			0.0427801	1.3894427	0.1014761	0.5973411
618	0.718018	1			0.0615139	1.367759	0.1002656	0.5712308
619	1.4982729	0.2802071			0.7154493	0.6161138	1	1
620	1.4073764	2.5791007			0.3013318	1	0.8059177	0.8432487
621	1.85851	1			0.1732733	0.6820708	1	1
622	3.4895791	1			1.6221613	3.0115025	4.9409264	1.6688621
623	3.5183162	1			1.6812505	6.1420489	1	1.8177056
624	2.2686863	1			3.3948074	1.1788456	1	1
625	1	1			1	3.1635558	1000	1
626	1.3109742	0.4481315			0.2426752	0.719336	0.5529376	0.7558075
627	0.3640517	0.2463911			0.5934577	0.2628123	0.313202	0.6884608
628	0.5888644	0.2294777			1	0.628023	0.4802866	0.631256
629	4.2909087	7.4819075			1.5271235	3.0664701	3.7959971	1.5827666
630	9.9099296	1			3.4409278	2.4981235	1	1
631	1	1			1	0.2673151	1	1
632	1.1953326	1			0.433616	0.4930407	1	1
633	6.0213685	5.7869707			2.3314632	2.0741562	5.1202958	1.751047
634	4.5101714	3.6330857			1.3175998	1.2649487	4.3722609	1
635	0.3451838	0.2823508			0.619335	0.3565963	0.3090863	0.6308418
636	3.8399692	1			1	2.8482195	2.6610328	1.5807398
637	4.7503701	6.0536397			1.2147446	3.5088126	4.0719142	1.7729681

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
638	0.643755	1			0.6128556	0.263938	0.3985576	1
639	3.4053305	2.0392079			1.7032744	1.9921509	1	1.546056
640	5.264528	1000			1	3.061981	1	1
641	1.4236772	1			0.2731908	0.7688055	1	1
642	0.6934669	0.6826923			1	0.4982848	0.2471768	0.4631772
643	0.6321171	0.5903969			1	0.2345734	0.2288835	0.4492929
644	6.3563116	1			0.5462407	1.8963625	1	1
645	3.8980478	4.9680262			1.6469419	2.8707132	4.9936544	1.7166838
646	0.559961	0.5041257			0.8745766	0.2923759	0.2548713	0.4663051
647	0.7531756	0.656194			1	0.461562	0.2700271	0.4708772
648	4.4418687	1			1	1.810232	1	1.672631
649	5.4130041	4.9507494			1	3.5741793	3.4529436	1.6994108
650	5.1899988	5.0908638			1	1.3632974	2.6807615	1.151839
651	1	1			1.5012664	3.7931507	1	1
652	4.2608908	1000			1.8756624	2.8043443	1	1
653	1.6822837	1			0.3470799	1	1	1
654	0.3232165	1			0.3719209	0.2880446	1	0.4588643
655	0.7746273	2.1747734			1.9472375	1.1601066	1	1
656	1.1807451	1			0.4631757	1.2745859	0.3430134	1
657	1.3578197	1			0.3857249	0.42232	1	1
658	4.004297	3.5546444			1.2631991	2.9199767	2.7603899	1
659	0.433685	1			0.1858599	0.3226877	0.4088069	1
660	1000	1			3.1005083	2.3240845	1	1
661	1.2931764	1			0.6032673	0.4442919	1	1
662	1	0.4137306			1	1	0.2552181	0.4681127
663	1	1			0.001	0.4229789	0.3167185	1
664	5.2109681	4.9540703			1.9696437	4.9370305	4.0848781	2.904812
665	1000	1			1	2.4940119	1	1
666	4.6627005	2.3173186			1.4127281	1.8013086	1	1.3582728
667	29.572225	3.7254247			1	2.696832	2.0528752	9.2366313
668	2.993402	2.2237369			0.7265669	1.809875	1.5719266	1
669	4.2462589	1			0.6034887	2.2131952	1	1
670	3.284599	1			1	2.5066281	1000	1
671	0.5444696	1.67996			0.3621314	0.6639634	1	0.9578447
672	10.374154	5.4940758			1	3.8934075	1	1
673	2.634163	2.1283895			1.1020998	2.4564379	1	1.5917367
674	4.3155041	0.6359887			3.1335592	0.7235848	0.5372386	4.5930697
675	1	1			1.4734674	1.925782	1	1000
676	3.0623534	2.2975275			1	1.5077933	4.403239	1.6514689
677	4.7402015	1000			2.1479375	6.3994454	5.3018472	3.7205676
678	0.6802267	0.5673067			1	0.2760119	0.2444906	0.444511
679	4.3316275	3.595887			0.603046	1.8450809	3.4123591	1
680	1000	1000			0.6730012	2.2639414	1	1
681	1000	1			1.2536813	3.2347295	1	1
682	2.3449509	1.6952493			1.2923262	1.5665362	1.7727173	1
683	7.6992387	1			1	3.8946568	1	1
684	0.569004	0.5722482			0.2964522	0.3795018	1	1
685	0.8592252	0.4391244			0.6059235	0.6363766	0.6311402	0.7020688
686	1	1			0.5962044	0.3480574	1	0.6838416

Table 4

SEQ ID	Patient ID							
NO	295	296	300	322	339	341	356	360
687	1	1			0.001	0.2419317	0.2060362	1
688	0.6763067	0.539286			1	0.3160501	0.3115143	0.5076464
689	0.5586192	0.2440403			0.5004523	0.5315688	0.38892	1
690	2.649743	1000			1	1.5033111	1	1.9796178
691	1000	1			1	3.5912503	1000	1
692	4.1861399	1			0.7017762	2.5586854	1	1
693	0.7523883	0.5310637			1	0.3706059	0.2881455	0.5069283
694	4.7731192	1			1.1651632	2.2936972	1	1
695	3.4539058	2.8068671			1	1.124482	1	1
696	0.0458364	0.1742901			0.0385544	0.1180349	0.2094396	0.2695912
697	6.2668567	1.992061			1	1.8217362	1	1.8823829
698	2.8238901	1.523826			1	1.6371814	1	2.5714056
699	0.6323277	0.4874812			1	0.3527593	0.2439747	0.5043279
700	3.6192316	1			2.3280525	2.2695631	1000	1
701	0.548445	0.4253574			1	0.2585291	0.2658614	0.4461414
702	3.2188136	2.448553			1.1220008	1.7214793	3.5414885	1
703	0.6592629	0.528553			0.8943368	0.3270739	0.2982935	0.461838
704	4.9683964	3.8021655			1.9446517	3.8531428	5.526533	2.0577595
705	0.5686714	0.2908929			0.5516133	1	0.4350358	1
706	0.5981792	0.4633082			1	0.2567101	0.1997141	0.4536038
707	0.6274375	0.4919539			1	0.2258423	0.2627007	0.3955633
708	1	1			0.1049077	1	0.2851829	1
709	6.6080706	4.4263821			1	4.1020553	5.4463176	2.1873626
710	4.0690456	7.2348297			1.83579	2.7905543	11.325301	2.1884159
711	4.1024124	1000			1	2.6247111	1	1.3532541
712	1	1000			1	3.2648903	1	1
713	2.8169207	2.469158			0.5231	1.5218029	1	1
714	1000	1000			1	3.1608513	1	1
715	0.5923852	0.4732274			1	0.3561295	0.239409	0.4616631
716	0.2914742	1			1	0.1168543	1	1
717	0.7285414	0.5468617	2.0534128	0.3905303	1	0.3049509	0.29952	0.5204542
718	2.12978	1	1.4002278	1	2.3788312	2.435372	2.5959051	1.6250838
719	8.2138568	1	2.0117219	1	2.7866805	1.568513	10.07969	3.968192
720	5.3744421	1	2.6093433	1	2.8969811	1	9.0767818	2.6071428
721	3.1294696	6.398285	0.7620316	1.882957	1.2624144	4.2570807	1	2.0645578
722	6.9951985	7.3958034	0.558867	2.0405147	1.5812526	5.6922039	7.5717605	2.9895809
723	4.2963257	1	0.6344986	2.5840172	1	2.2612713	2.7370257	1.7867501
724	3.3282176	1	1	1.5745247	1	2.1657575	3.8789212	1
725	0.3250905	0.2422636	0.8190717	0.2338028	0.4012392	0.1824681	0.1947247	0.4004555
726	1.3475901	1	1.6431994	2.1285782	1	2.7434049	1	0.8019903
727	4.5544331	1	0.5506724	1.6834977	1.8709738	2.6151151	5.0353789	1.6520965
728	1	0.2492179	0.5787956	0.4491388	0.6252308	0.1508452	0.3725072	0.5019026
729	1	0.2848869	1	0.4884073	0.6016575	0.1995597	0.3816504	0.3387468
730	0.2512212	0.1186302	1	0.6406791	0.5075253	0.198736	0.3019072	0.3264738
731	2.2889182	1	0.7210538	1	0.4682868	1	1	1
732	4.2335675	1	1.119741	1.5100358	1.4261799	2.7834843	3.1921716	1.6155523
733	1.3400717	1.5211118	1.3623853	1	1	4.2776799	1	0.67501
734	2.9192278	2.4151694	1.1254999	1	1.7402089	3.8173534	4.590773	1.702536
735	1.2581684	1	0.3201175	1	1	0.6234927	1	0.5602146

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
736	1.5922965	1	1	1	1.9599347	3.0951346	2.8473375	0.9044381
737	8.341408	1	9.5405596	1.5319754	0.7313761	1	1	2.7355348
738	11.475635	1	1	4.5347971	1.3002343	8.611103	8.6259939	2.4906348
739	0.4207497	1	0.2748546	1.3167938	0.2500601	0.2538683	1	1
740	1.4885977	1	1	1	2.2230642	1	1	1
741	3.984858	1	1	1.8567645	1	1	1	1
742	3.2969245	1	1	1	2.5932044	3.2827919	4.4331763	2.1876977
743	0.1754612	0.2233191	0.3413179	0.2742293	1	0.0566562	0.5129673	0.2147934
744	3.3179658	3.3115197	0.7434337	2.9403682	1.2567197	1.8168146	3.7304875	1.1813991
745	4.9001713	1	1	1.4097526	1.5143459	4.4844056	4.4406004	2.0202565
746	0.4268653	1	12.555524	1	1.8187061	0.5195086	1	2.9517191
747	3.3011272	4.7104878	0.5124372	2.0898063	1.5080878	2.7640315	4.2731476	1.6116203
748	0.3202058	0.3295086	1	0.5573687	1.6180664	0.1372955	0.3639184	0.3022019
749	0.1396825	0.0606486	0.0537466	0.0807872	0.0765755	1	0.4641289	0.1527753
750	0.2416569	0.258385	0.3426418	1	0.2268088	0.1776838	0.2764918	0.4356484
751	5.1661741	1	0.8268447	3.0503737	1.4290473	2.6406083	6.581906	1.8785633
752	1	1	12.027191	14.844964	1	4.0583104	1	1.9559181
753	6.1468405	1	1	3.6111176	2.5056521	4.5945194	7.0285311	1.8052021
754	0.6818124	0.5357217	2.4911128	0.4622896	0.8242809	0.2538272	0.2703777	0.5122313
755	0.3794488	1	9.6307155	1	1.985661	0.4855794	1	2.5850341
756	1	1	1	1	1	1	1000	1
757	3.3178383	1	0.7592968	2.9230666	0.6112257	0.7590653	4.0462317	1.6477404
758	4.5528696	1	0.6998062	3.0992252	0.6640871	2.428	4.0673338	1.962791
759	4.0183856	1	1	1	0.7523738	1	2.9892122	2.081665
760	4.6792286	4.7303951	1	1	1.6807474	4.1754324	5.202676	2.0766498
761	4.5129492	5.3250686	0.6376222	1.6387823	1	3.8461277	4.0487029	1.9046868
762	7.9312649	1	5.94108	2.0434567	0.7715101	1.3591858	1.9612652	6.7055552
763	1	1	1	1	0.3240298	1	1	1
764	1	1	1	3.6162667	1.7713885	1	1	0.7455561
765	1	1000	1	1000	1.9744127	1	1000	1
766	3.7950033	2.2166518	1	1.5652673	1.4283531	3.9314415	3.2644827	2.3093712
767	2.6315571	1	1.1894205	1	1	4.2729025	3.5878096	1.5192059
768	4.4445412	1	1	1.3485602	2.0107636	1	4.6432941	1.4368152
769	4.8093635	1	1	2.2959193	1.4906317	1	3.5323675	1.944242
770	1	0.2136216	0.5047124	0.4085874	0.6914735	1	0.5093152	0.8895283
771	2.8321015	1	1	1	0.8094306	1	1	3.652743
772	4.0724389	1	0.6715714	1	1.928574	5.7079021	5.8234931	1.5378758
773	0.3790828	0.2423799	0.843037	0.2620654	1	0.3509266	0.306587	1
774	0.2375762	0.1868653	2.4754843	0.0471758	1	0.3787261	0.3368119	0.6180096
775	1	1	1.1588849	2.5370796	0.5889805	1	1	1
776	4.9811543	8.8275048	0.4846566	2.0412926	1.5264293	3.8565611	5.4181253	1.7353953
777	0.7213169	0.6113325	1.8222906	0.4662212	1	0.3389831	0.3194582	0.5254733
778	3.0076126	1	1.178457	2.9800095	1.2344242	1	3.7322377	3.9977024
779	2.9798846	1	0.6363459	1	1	2.3271253	2.1962704	3.5367173
780	0.2952999	0.2500754	0.3321988	0.2255195	0.4403771	0.0689772	0.4644433	0.3400845
781	5.3233274	1	1.0769611	2.1762602	2.0838781	6.3759565	1	3.1150394
782	1	0.633162	3.3210044	1	1.902425	1	1	1.5512611
783	6.9586769	1	1.2312057	3.5680676	1	5.5014646	1	1.8099403
784	3.5281799	5.1642402	0.2519811	1	1.6282081	3.0462554	6.5515496	1.5489541

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
785	0.2208429	0.1003143	0.1345024	0.4617845	0.1045958	0.0940449	0.3582833	1
786	6.0878304	1	0.7641932	1.5202787	1.1638552	3.4077526	6.2099075	1.7096976
787	3.2838117	1	0.6096644	3.4158045	0.6093845	1.686342	1	1.6774013
788	1	1	1.3328293	1.6903481	2.8631856	1	1	1
789	0.0519908	0.0831865	0.0477738	0.2070491	0.087512	1	0.1482877	0.2353654
790	2.8126736	1	1.3227761	1.7934626	1.287195	3.1145942	2.4012592	1
791	3.3748136	3.1118103	0.439889	2.018547	1.4144083	2.1931314	3.8676058	1.401569
792	0.4007951	0.3275429	2.279715	0.1197222	1.3606012	0.5196733	0.3605992	0.4297243
793	0.152141	0.1219075	0.1830625	0.2070376	0.2454119	0.5585653	0.3705948	0.8250259
794	3.9350684	8.3036388	0.9134693	1.655504	1.9730745	2.4240875	5.7204743	1.6929654
795	0.3904324	0.2614842	1	0.5401013	0.4066018	0.146919	0.2780828	0.5205165
796	0.4334244	0.239128	0.4607332	0.2721877	1	0.4835476	0.4024166	1
797	3.3832024	4.5574857	0.6546536	1	1	3.0316349	3.9075015	1.3920273
798	7.2850925	1	1	1.7304109	1.3540514	2.803397	1	2.4100109
799	2.390998	2.8936397	0.2526536	2.8539892	0.5310785	1.8018852	2.5252021	1.3535289
800	2.9333163	1.381655	1	1.5536095	1.5120318	3.8025064	4.7691196	3.0234815
801	0.2937918	0.2194386	0.7236166	0.2729231	0.6072415	0.3347479	0.3302045	0.6491747
802	6.4291607	4.693469	0.5861283	1.5099885	2.3181221	6.0897994	6.9438648	3.260714
803	0.48358	0.1678554	0.4689751	0.3841878	0.6390146	0.4134378	0.4439163	1
804	1	1	0.3755609	1	0.2311049	1	0.5889895	0.6245489
805	2.6323998	1	0.6755856	1.8258783	1.7592346	1	3.0588678	1.4963564
806	4.3491037	3.3541393	1	1.4431493	2.0811817	3.6208483	3.5704181	1.7624984
807	2.5064067	1	1	1	2.258892	3.8556551	3.505902	1.3755766
808	4.0528668	1	1	2.5787624	1.2800818	3.5111121	1	1.8626057
809	1.6238724	1.6931892	0.3862021	2.1497548	1.4627321	1.7472951	2.8817894	0.7274922
810	4.645252	1	0.6282694	1.6931991	1.2179943	4.0086419	4.4585201	1.9251874
811	6.0280108	7.3661513	0.5480226	1.9478052	1.285223	3.6224682	6.1732823	1.8197236
812	11.452703	1	0.5556407	1	1.644819	9.1100193	7.7172017	2.5408893
813	4.4618289	1	1	1	1	6.9139981	1	1.5850248
814	5.6340687	7.6287874	1	1	1.1880322	2.5452112	6.0419957	1.7505565
815	4.9490239	1	0.916078	1	2.0351519	5.5373844	4.7042528	1.6145349
816	0.6155556	0.5113598	2.4150143	0.4368739	1	0.3165993	0.2675856	0.4766439
817	0.6877117	0.5650286	2.2408184	0.4376436	0.892566	0.3347616	0.2722301	0.4909821
818	0.6807534	0.5471233	2.171863	0.6110805	1	0.3127622	0.2919783	0.4910231
819	0.5639696	0.440218	1	0.3189233	0.7682905	0.386661	0.38779	0.5737976
820	0.7068957	0.5837079	2.2483891	0.3751022	1	0.2644253	0.2928447	0.6185295
821	3.3252014	1	0.4935801	1	1.547437	3.7964729	5.5074021	1.8977818
822	2.9678142	1	1	1	2.9223452	4.0067748	5.0629401	1.556671
823	3.3756563	5.3623036	0.6837939	2.0227837	1.5682435	6.363203	4.4665309	1.4480519
824	0.7928021	0.435273	0.3971506	0.4371712	1.2523834	0.1425465	1	0.3656015
825	1	0.5831483	0.2389499	0.4353858	0.346597	0.2393577	0.317596	0.6563854
826	4.2772027	5.0837787	1.3514118	1.7984158	1.8191387	2.7427734	3.3092984	1.2014724
827	0.7094628	0.6182215	2.2584394	0.3796504	1	0.3065365	0.3045844	0.4903248
828	0.7673141	1	0.1739365	0.5506617	0.5196792	0.2918199	0.1877066	1
829	4.8283368	5.4337905	0.2671076	2.5452543	1.2671532	4.2318483	4.9464566	1.841237
830	0.1114222	0.09663	1	0.4486495	0.1188626	0.0800216	0.217424	0.2349794
831	0.3542934	0.2150822	0.0876522	0.2127807	0.2213758	1	0.0661143	0.2060843
832	6.499404	1	2.3062161	1	1.5463202	3.7591803	3.7182815	1.216618
833	0.0788095	0.0608956	1	0.4392714	0.0734767	0.0704599	0.2002581	0.2131223

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
834	0.6495656	0.6038405	1.9050343	0.5034294	0.8911273	0.2891978	0.2953673	0.4930983
835	0.4488271	0.3007903	0.4703888	0.5957219	0.6486633	0.1227162	0.7487661	0.351138
836	0.622514	0.5434971	2.1031736	0.6120896	0.891077	0.3349401	0.2791229	0.496349
837	0.7101226	0.5852848	2.0498491	0.6390223	0.8553699	0.3404863	0.3031082	0.4872021
838	4.7186611	3.1621146	1.2117816	2.0150018	1	3.5208522	1	1.4900457
839	3.0295688	1	0.8110966	2.8360163	2.0074636	2.9155906	3.9225303	1.5789425
840	3.4513165	1	0.4262228	2.175376	1	1.947452	1	2.1570672
841	2.467318	1	1.6191962	1.3976087	1.6950142	2.4821371	2.3416024	1.1411904
842	4.1612395	1	0.8048195	3.0283279	0.758008	4.1417709	1	1.5317973
843	1.4473522	1.3083077	0.1403831	0.3448068	1	0.360145	1	0.2507455
844	3.4100211	4.7202071	1	1	1.8030308	6.3768831	4.9470719	2.5188063
845	3.8979812	1	0.8006645	1.5273623	2.067408	2.6235304	3.4892936	2.3997152
846	0.609246	1	0.1291015	0.4681371	0.1960619	0.2825602	0.5661039	0.3326298
847	1	1	0.7416067	1	1.6456139	1.7583532	2.3738859	1.2887686
848	1.3735882	1.1780725	1.9178169	0.7061882	2.2005775	0.1860443	1	0.5407542
849	0.6896911	0.5990117	2.2931985	0.4773187	1	0.3185006	0.30113	0.4829427
850	3.642197	3.8220329	1	1.2623917	2.0002195	2.8528459	3.6079878	1.6299318
851	0.3367672	0.4880407	0.3687091	0.2324045	0.3290403	0.1404942	0.3554179	0.2597363
852	1.7932679	2.828166	0.2165537	1	1	1.601344	2.4484123	1.5651754
853	3.2033833	1	1	1.9897904	1.6982941	1	4.2786637	1.611984
854	3.722204	4.7821891	0.5813501	2.1809882	1.153623	3.401877	5.2060808	1.8673365
855	0.7104386	0.5214388	0.5654924	0.6806423	0.5720375	0.3745665	1	0.5190951
856	2.6803708	1	1.9047902	1.2381293	1.3528843	2.3594964	2.4151107	1.537663
857	0.1668007	0.1116105	1	0.2609033	0.629869	0.0558668	0.2357941	0.3046902
858	0.8235186	1	3.3682314	1.6659782	0.1559581	0.4794704	1	0.6422774
859	1.4168298	0.8086983	0.2008729	0.6015149	0.5202728	0.2615561	0.797355	0.6159272
860	0.3584185	0.2148024	0.3987703	0.4765257	0.5161779	0.0859453	1	0.2200311
861	3.1617385	1	1	1	1.5688573	2.7450935	1	1.7938666
862	3.1617385	1	1	1	1.5688573	2.7450935	1	1.7938666
863	0.6602055	0.5387556	2.2869646	0.4228206	1	0.3026652	0.2760179	0.5031832
864	1.2442906	0.6972186	0.3236482	2.1199628	0.63496	0.1717189	1.3881429	0.3647426
865	1	1	0.4450491	1	0.215993	1	1	0.7885871
866	4.5666421	3.9902589	0.7289996	1	1.7711168	4.2688389	5.0436796	2.7109111
867	1	1	1	1	1.8584376	1	5.2716312	1.6897895
868	0.638094	0.5289163	2.4422641	0.4126497	1	0.2652147	0.2683058	0.4191411
869	7.824001	1	0.740855	2.5951504	1	3.6531644	5.7139	2.0636204
870	5.4874944	7.2660659	1	1.8335205	1	4.2275514	5.849185	2.1829214
871	4.985734	3.2312726	0.848855	1.2708483	2.2343831	4.9716736	3.4722355	2.9080224
872	4.6526871	1	1	1	1.4832971	3.576218	4.5014099	2.3489765
873	4.8608608	4.1862476	1	1	1.8226702	5.2854037	4.7594182	1.7807358
874	3.3623274	2.8982251	0.7882648	1	1.5735961	3.0049336	3.4988087	2.0049435
875	3.6636542	1	1	1	0.8173488	1.7689925	1.5414067	1
876	3.3071873	1	0.6737226	1.397163	1.494294	1	1	2.2730411
877	0.2331627	0.2889345	0.1197894	0.1785773	0.1282899	0.0707344	0.1610811	0.1432041
878	0.2282281	0.1721537	2.3788409	0.047893	1.4224875	0.4126485	0.3252257	0.3668329
879	2.8181128	1	0.5673579	2.0192237	1.4457489	3.9850088	1	1.61417
880	0.6038678	0.6362104	1.7260519	0.4320326	1	0.3903196	0.2856252	0.5614225
881	0.4464097	0.2473903	0.093368	0.4803879	0.122887	0.0948754	0.1679608	0.3476837
882	0.4137027	0.3445835	0.4676397	0.5389475	0.4138257	0.1642851	0.3719325	0.6088313

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
883	0.1757606	0.1132637	0.0411246	0.2986844	0.0663232	0.027779	0.0704288	0.2276612
884	8.3107746	1	1.2964492	1.5491144	2.6057305	8.7988221	10.248508	2.0702003
885	5.4381761	5.039822	0.6138992	1	1	4.7246625	4.5425374	2.2449713
886	5.3815557	10.333476	0.5817084	1	1.8297432	6.2968753	12.398522	2.1311366
887	6.5568172	6.4375402	0.2818886	2.4287678	1.3432357	5.242208	5.0201259	1.805952
888	3.7323616	1	0.7673661	1.1949302	1.782003	4.0939007	4.589184	2.5085058
889	1	1	0.5381426	0.4201405	1	0.4192517	0.731054	0.4897172
890	5.6779423	1	0.51064	1	1.6074217	4.9216893	5.5051153	2.3890503
891	0.6523212	0.5752312	2.5400368	0.397715	1	0.2670337	0.2863429	0.4847503
892	0.5828265	0.5604578	2.2298362	0.4494739	0.8924151	0.274797	0.275559	0.4581054
893	1.832473	1	0.7217717	1	1.5942416	1	1.7466388	1
894	3.6020991	1	0.6000849	1	2.1611076	1	1	1.737627
895	4.1756996	1	1	1	0.5526999	1	2.5599831	3.8694479
896	5.499842	7.1207012	2.0376942	1	1.8419876	2.6734941	4.3775542	1.5037152
897	3.0659906	1	0.2730502	1	1.5755379	3.0327057	4.330371	1.4188122
898	3.5130989	1	0.8635316	1.2793849	1.5752461	2.5297807	2.9545727	1.6760797
899	3.4300423	2.9796603	0.7383065	1	1.5442074	2.4564997	3.7776102	2.0602612
900	3.3655044	1	0.2870789	1	1.6615004	2.6367644	5.2286654	1.3628456
901	1	1	0.8659928	1	1.2611165	1	4.4297202	1.8975657
902	4.0558275	5.4411918	0.2866871	1	1.4336352	3.1891039	7.1588297	1.3980416
903	0.6586918	0.5486093	2.3111171	0.3711727	1	0.2481574	0.2720626	0.4639273
904	4.4851324	3.0532328	0.7752345	1.4252219	1.5407866	4.028939	4.0188398	2.7981567
905	0.249519	0.2253284	1	0.2096124	0.6535228	0.3313982	0.3146589	0.6173799
906	4.3991484	7.6272686	1	1	1.8902108	4.3494096	6.041078	1.6520146
907	0.3536835	0.0942066	0.6544663	0.4804023	1	0.0485772	0.5703167	0.256285
908	0.7366253	0.6305605	0.4960677	0.5255399	0.4912363	0.4445253	0.6054135	0.5441148
909	0.4126658	0.4254519	0.7748	0.3935701	0.6008929	0.2281692	0.3533246	0.4155734
910	0.2894616	0.3431883	0.3038667	1	0.2915826	0.0911208	0.3321818	0.3512502
911	0.3126986	0.4333073	0.199072	1	0.2767122	0.1643606	0.4127608	0.3777253
912	0.4115015	0.3943791	0.7619145	0.2433097	0.7074406	0.342168	0.3225148	0.6519217
913	0.4618178	0.420674	2.0840292	0.4210031	1	0.3243008	0.3293678	0.4864247
914	0.7003975	0.632606	1.9854747	0.4959781	0.8795267	0.3296136	0.3168068	0.4809426
915	0.7026819	0.7996221	5.0541606	0.7342967	1.3014014	0.8208284	1	1.5810147
916	0.465893	0.1941321	0.560136	0.3659855	1	0.4074729	0.385057	1
917	5.1974617	5.0337869	0.267923	2.1496589	1.3121165	5.2245947	4.3167417	1.924113
918	0.6304925	0.5458988	2.1055075	0.3851397	0.8781383	0.2780574	0.2730037	0.4662964
919	6.3123049	1	0.6838752	1	1	5.4396809	5.3067989	2.3949444
920	7.9615822	1	1.0879785	3.3495588	1.6673762	7.7191146	7.0584663	2.407052
921	1.4638027	1	0.2626041	0.5268673	0.4398439	0.2579113	1	0.6248299
922	4.1716964	1	0.7167622	1	1.127474	3.2663043	3.9615994	1.6926214
923	4.2013041	1	1	1.4764003	1.4860639	1	1	1.3168772
924	0.6572225	1	5.6092345	0.7253327	1.8174183	1	1	1.7331993
925	3.3969638	1	0.7123364	1.5332915	2.2892969	2.4626019	7.100046	1.5688346
926	0.7127008	0.6142465	1.9905715	0.4780764	1	0.300805	0.3008135	0.4843487
927	2.2671782	2.8148279	1	2.0747795	0.6318813	1.3519785	3.5662564	1.3639983
928	0.4391131	0.4556526	1.6710035	0.467987	1	0.161814	0.614657	0.5688131
929	1	1	0.5480192	1	0.2537123	1	1	0.7905511
930	1	1	0.3974294	0.3761886	0.4084732	1	0.470075	0.4642741
931	5.471055	5.9921337	1	1	1.1658272	6.2625686	5.9928368	2.1732423

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
932	3.8646422	3.5027414	4.3407131	1.4319135	2.0844516	8.1436036	4.49023	2.9593197
933	5.4916916	4.9519339	2.1619116	1	1.6351201	5.0287005	3.6821383	1.859834
934	3.1404144	1	0.7318204	2.0815012	1	2.3124225	4.2165226	1.3513337
935	2.1752061	3.3324407	0.7639051	1	1.5439559	1.5547505	2.7327006	1
936	0.4523977	0.842914	1	1	0.7976389	0.2548156	1	1
937	1	0.6531093	0.2412483	0.5273285	0.6656365	0.4347028	1.6438443	0.5420118
938	5.1153644	7.5214643	1	1	1	3.7067592	5.9391455	1.6797966
939	3.8746112	6.7903788	1	1	1	1.7812792	4.1714166	2.2080369
940	0.6665595	0.5761468	2.3622678	0.3532442	1	0.2601764	0.2828406	0.4908832
941	2.1150206	1	0.4667206	2.0876334	1	6.0279265	0.4537355	1.4139567
942	0.1171774	0.0954346	0.1273944	0.1555897	0.1994122	0.031616	0.3542624	0.1618445
943	0.533802	0.2664802	0.3858078	0.2176398	0.8334869	0.0755599	0.4188725	0.2646953
944	4.1312272	4.2381433	2.4109661	1	1.7337597	3.4013484	3.3536642	1.7622188
945	5.8434622	7.6173022	1.2822352	1.2550595	2.3683474	6.9863936	5.598882	2.1419566
946	1	1	1	1	1.7306911	1.329176	1	1.6177218
947	4.8812868	7.9327605	1	1	1.2445558	4.2707128	6.0613316	1.8014293
948	4.1704767	1	1	1	1.8110797	1	1	1
949	3.3860024	4.787403	0.4118956	2.3235969	1.305788	3.3917113	3.6503724	1.7017536
950	3.7297889	1	1	1	1.1598509	7.1798923	1	1.7247086
951	0.6112587	0.5225652	2.9351462	0.273888	1	1	0.2734899	0.4979186
952	2.1798912	2.6317994	2.209888	1	1.2477552	1.2970314	1.3652247	1.6162052
953	2.2364118	2.5104769	1	1.4598065	1.4079893	3.1932224	3.1380243	1.4315899
954	1.234072	1.2547152	0.4523019	1	0.7356924	0.1995253	2.673374	0.6831828
955	1	1	0.1093966	0.4720859	0.3492431	0.3147048	1	1
956	1	1	1	1.2040066	1.2908573	1	1	1.7987395
957	3.910096	1	0.5876095	1	1.3601887	6.2919263	5.3153091	2.1372864
958	2.5742935	1	1.7502917	1.2622264	1.8588501	3.5866583	1.4644498	2.1141484
959	2.4945304	3.0619711	1	1	1.8284151	3.3522496	2.3220537	1.8553475
960	2.3827477	2.1082787	0.7570246	1	1.2820739	3.1425036	2.8262956	1.5402448
961	4.6430286	1	1	0.8109245	2.2876871	4.1809992	5.0049651	2.3692369
962	3.9156238	1.8825506	0.6498141	1.7754229	1.2615994	2.9271291	3.4749657	1.5811898
963	3.9049618	1	0.6088049	1	1.5983968	3.0284431	3.1682697	2.2591232
964	2.49137	1	1.347929	1	1	1.88457	1	1
965	3.0566814	1	0.8404231	1	1	3.7229928	3.1479587	1
966	6.0285874	5.7217695	0.6096436	1	2.075638	2.5030931	4.7025843	1.6906467
967	1.4208662	1	0.3230017	1	1	1	1	0.578435
968	3.0940347	1	1.4106605	1	2.7760861	3.5392205	3.5916975	1.8843696
969	0.6040564	0.599059	2.2024107	0.4166674	1	0.2786477	0.2627666	0.4242776
970	3.7235846	5.3919157	0.4589643	2.3373474	1.369616	7.4971711	5.3309821	1.4373316
971	2.9197379	1	1.0736611	1	1.1553535	1	1.6957773	2.2055529
972	0.3568161	0.3683713	0.3246285	0.5123253	0.4312214	0.1191949	0.5671533	0.3780409
973	0.3080246	0.2490181	1	0.2513549	1	0.3163727	0.3601813	1
974	0.6307088	0.5800273	1.9043021	0.4426895	0.8234358	0.323024	0.3288504	0.4897915
975	0.3402048	0.3790281	1	0.2963315	1	0.3271905	0.3647661	1
976	0.4463209	0.4327841	1.3252924	0.2471686	0.8062412	0.3763786	0.3291361	0.4972154
977	8.7934897	6.4848324	1.3632496	1	3.1024199	6.1520499	10.761487	2.0100624
978	4.8491675	1	1.3122648	1.2650762	2.175646	4.8866344	4.4645255	1.8584858
979	2.2207597	1	1.3685217	1	1.2992986	1	1	1
980	2.4954785	1	0.7672868	1	1.7385086	3.7482252	6.732305	2.3694614

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
981	0.756835	0.6315814	1.1004444	0.7258462	0.5575293	0.5832073	1	0.7556248
982	2.7656618	2.2337033	0.6990328	1	1.2240511	2.0414145	2.9230879	1.4262804
983	4.2210425	4.2397239	0.6967552	1	1	4.1661933	3.5819937	2.0633649
984	6.5725082	8.820089	0.7670723	1.8098991	1	3.9280437	5.6554042	1.9228919
985	0.7494608	1	5.6895786	1	1.6162654	1	1	1.8288101
986	1.9444441	2.4855845	1.173788	1	1.6241031	5.5604134	3.575875	1.3378452
987	0.6405225	0.2974875	0.2918862	0.4622275	0.364687	0.2575475	0.3271383	0.37141
988	0.6738006	0.6310255	2.0623884	0.4057661	0.8379339	0.2724151	0.2900789	0.4763736
989	0.5263724	0.1209556	0.403009	0.2437195	0.727402	0.4047067	0.4738383	0.8679688
990	1.7021052	2.1227904	1	1.7856205	1.4023752	2.4100847	2.3177238	1
991	2.4673235	1.2980071	0.2367156	1	1.3510331	0.3436987	1	0.4794184
992	0.606313	0.5864656	2.4310123	0.3922374	0.7313761	0.3927083	0.2682805	0.4910423
993	1	1	1	1	1	1	1	0.001
994	1	1	0.8183914	1	1	1	1	1.4712989
995	0.4613632	0.4348006	2.1508571	0.3459778	1	0.2860952	0.2777488	0.5228929
996	4.4170737	1	1	1	2.223517	4.8853851	4.3569348	1.542288
997	0.6633492	1	0.473423	5.3731884	1	0.195908	2.22502	0.6886694
998	1.6755804	2.467839	0.8921576	1	0.7818328	2.1293503	1	2.0834434
999	0.8881342	1	0.3686938	1	1	0.2516856	0.5156473	1
1000	0.4366735	0.4453992	0.4577592	0.249693	1	0.5232358	0.3982304	1
1001	0.1298854	0.2726787	0.0745368	1	0.1522757	0.0954383	0.2642768	0.2892024
1002	0.4384533	0.4722209	0.5057486	1	0.5460696	0.2464757	0.4233307	0.4898011
1003	2.2173221	2.5233173	0.5580905	1	1.3580256	3.4932517	3.4631657	1.5761051
1004	3.4077756	1	0.5227742	1.3961914	1.6812907	2.5678558	4.1148829	1.5846229
1005	0.6964499	0.6200999	2.0514052	0.4964994	0.8784099	0.2896028	0.3128645	0.476737
1006	1	0.5826724	0.4337019	1	1	1	0.4803853	1
1007	0.25793	0.3222164	0.2555574	0.363172	0.2809781	1	0.4360756	0.4272125
1008	0.6409993	0.6098392	2.0812568	0.5142444	0.8148133	0.2916414	0.2761099	0.4932175
1009	0.5548656	0.5769461	2.3040412	0.3934672	0.8618996	0.2990409	0.2839714	0.5352827
1010	2.7456905	2.2703497	0.935044	1.5728287	1.1501519	4.2545067	2.4326885	1.5501308
1011	0.6458175	0.6057262	1.9461309	0.4948118	0.9067623	0.3573994	0.3006634	0.5049748
1012	4.5973142	1	1	1.7186231	1.8305079	3.1137911	3.2300193	1.7199617
1013	4.543771	1	1	2.0665932	1.7138587	4.2626063	3.7801233	1.8699557
1014	0.6001142	0.6226687	1.5014498	0.4546392	1	0.3841968	0.2968886	0.5660854
1015	4.8840535	4.2237369	0.4809787	1.6204854	1.367956	5.2897967	5.9685561	2.1806363
1016	0.7056759	0.7206104	1.6864885	0.4946087	0.8491621	0.3196538	0.3290762	0.4994532
1017	1.8819965	1.7182814	0.6897466	1	1.4993447	4.2133633	2.658365	1.6096226
1018	0.1442567	0.1802634	2.3705569	0.0571246	1.3713767	0.3770787	0.3132587	0.3692333
1019	3.1342046	1	0.2962674	2.366504	0.8089477	1	2.5871249	1.241606
1020	1.5232564	1	0.8224067	2.6831535	1.832832	3.0158063	2.7366491	5.1319886
1021	3.9978598	1	0.7371195	2.0695221	1.3093296	5.4031983	4.147493	2.1052013
1022	1.1853082	0.5095722	4.1599893	0.6377621	1	1.7114097	0.611435	2.1123618
1023	0.5914925	0.5885112	2.0598873	0.4626802	1	0.3266277	0.2916871	0.5101562
1024	0.8059315	0.6467581	0.6178014	0.5417529	0.7287501	0.3453186	0.4994344	1
1025	3.6516614	3.1043365	1	1	1	1.6872412	1.7234047	2.2880214
1026	3.5629661	5.9299955	0.6563352	1	1.5710506	4.487618	4.5193112	1.6434882
1027	4.3561397	5.511229	1.6077962	1.2000188	1.7837536	3.0916613	4.1666099	1.6251103
1028	4.8984747	1	1	1.8780401	1.5204832	5.9320146	4.9942815	1.4861698
1029	2.9941672	2.8453266	0.8197343	1	1.2646479	1	2.4543044	1.5194367

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
1030	1	0.7518539	1	1	0.4167937	0.583983	0.4395648	0.6738772
1031	6.3717197	6.0814897	0.7481772	1.5314398	2.1217886	3.2189078	5.5373044	2.9278634
1032	0.58215	0.2906095	1	0.5201225	1	0.131461	1	0.2874283
1033	3.7169368	3.3166028	1	1	1.9566145	4.5116835	4.8199779	2.533678
1034	7.4952622	4.0136143	0.7204102	1	1.8178509	7.5936459	5.4381266	3.106619
1035	3.2653929	1.9116904	1.8948941	1	1.300023	2.7618967	1	1.441954
1036	0.8127124	1.0915142	0.0850275	1	0.2874575	0.3803323	1.811718	1
1037	0.4275029	0.281388	0.6072358	0.3858088	0.6582516	0.4610197	0.3688011	0.6427316
1038	3.8993119	1	1	1.5498618	1	3.2343726	1	1.8011048
1039	1	1	1.6777155	2.3726798	1.6742781	1	1	2.5482716
1040	1	1	1	2.3416636	1	1	1	2.1086198
1041	1000	1000	1	1	1	1	1000	1
1042	4.8530154	1	0.4585501	1	1.6773568	4.6967806	5.1507974	1.9671933
1043	6.3179104	1	0.5254805	1	1.67458	8.1511815	6.7380074	1.8148353
1044	1	1	0.5539219	1.4094227	1.2341224	1	3.3690037	2.0236093
1045	7.0491852	1	0.8569881	2.9970614	2.5080869	1	3.3816067	2.2140508
1046	0.4458996	0.566442	0.1872572	0.3709927	0.4452568	0.1840949	0.431412	0.5374002
1047	1	1	4.9058237	0.7358104	1.3437186	1	1	1.5352783
1048	1.2147772	1.6012099	1.8154829	1	1	1.7493887	1.3554083	1.6463296
1049	2.5789121	1	0.7636271	1.4645984	1	1.6497633	1	2.0544193
1050	3.7224314	1	1	1	2.8012189	3.9100598	5.1897779	1.8327321
1051	0.5194307	0.5526933	0.1953851	0.4782662	0.4805815	0.0481996	1	0.3913796
1052	0.6213995	0.557126	1.7685678	0.3790144	0.8267358	0.2740694	0.2963444	0.4946351
1053	0.421598	0.3582414	1	0.3271623	0.7816618	0.4557069	0.4343755	0.632666
1054	0.3813006	0.3274448	1.3838656	0.1956306	0.8468078	0.248734	0.355758	0.4907748
1055	0.4869067	0.2908602	1	0.3152902	0.8600986	0.4316963	0.4156291	0.6163486
1056	0.4492429	0.4102498	1	0.225217	0.6864027	0.314389	0.3639317	1
1057	0.4091839	0.3114543	1	0.2537333	0.7689847	0.3467395	0.3606156	0.655658
1058	0.4752854	0.397166	1	0.2315435	1	0.3464649	0.3994181	1
1059	4.436047	3.5251957	0.5790004	1.9177281	2.262836	5.0680797	2.9070646	2.4104176
1060	0.5902672	0.4875248	0.8141549	0.2857323	0.5766354	0.284997	0.5167125	0.4335553
1061	2.3027074	1	1	1.8962204	0.6219509	1.5296143	3.4786127	1.3718397
1062	2.7492058	1	1.3764642	1	1.4957629	5.3068814	1.7026737	1.4595296
1063	3.2983771	1	1	1.9319523	1.4696944	4.139293	2.9349511	1.2040768
1064	6.2384356	1	0.3227773	2.0370642	1.6615809	4.2668003	7.7699663	1.9345368
1065	3.3873608	1	1	1	2.1200681	5.7765361	5.9587203	1.8529407
1066	0.6525763	0.6479535	2.0213664	0.4368858	1	0.3413786	0.3015158	0.5449303
1067	6.9087653	1	1	4.3278924	4.3347917	1	5.598882	2.9394836
1068	6.0152474	1	1	1	2.0998251	1	8.3036446	2.6850672
1069	0.6488448	0.5460986	1.3820426	0.652442	0.7943288	0.2355481	0.330817	0.456016
1070	5.0146763	2.0673013	1.3131537	1	1	3.3393245	1	1.8207509
1071	0.299608	0.3022654	0.7602775	0.3126858	0.5525289	0.3762345	0.3324706	0.6922741
1072	5.040181	1	1.2616988	1	1.6233586	4.1538517	1.8256051	1.8027285
1073	6.0495179	1	0.913619	1.6055829	1.2263853	10.789236	9.1794271	2.7593149
1074	1.3576644	1	0.1705209	1.0931411	0.2598094	0.4796626	1	0.361611
1075	0.1004497	0.0947516	0.0199541	0.2454913	1	1	0.0303201	0.1613287
1076	1	1	1	2.2734963	1	1	1	1
1077	8.6698196	7.9554038	1	1	1.7653216	7.4139372	5.1355013	3.16784
1078	3.6796667	1	0.729423	2.0905316	1.1535425	1	1	1.845928

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
1079	3.038379	1	1	1	2.5248589	4.4843919	4.6276274	1.9308384
1080	4.1233706	1	1	1	2.7643246	1	4.9736723	2.1350046
1081	0.409317	0.7204033	0.2237681	0.4764503	0.3246033	0.2105765	0.4060731	0.2243576
1082	3.4134753	1	0.862884	1	1.5101001	2.4646405	3.464674	1.9599438
1083	4.2160746	4.5113816	0.593057	0.8767285	1	3.4359366	4.1418783	1.5248591
1084	1	1	0.6097165	2.9275063	1	4.947258	1	2.1671189
1085	0.2467745	0.4890907	0.0939327	0.1784919	0.1762615	0.0980329	0.201601	0.1667109
1086	4.5028083	1	0.4365554	2.0418981	1.1742383	1.4933032	1	1.7244112
1087	0.6613587	0.4561359	0.0437257	0.8777666	0.0860129	1.5796191	0.1161888	0.6934841
1088	0.2411967	0.1860877	1	0.319346	0.6374652	0.0949853	0.2531438	0.4287275
1089	0.3400108	0.41114	0.3271035	1	0.3731786	0.2597371	0.3657321	0.4414904
1090	3.2782839	1	1	1.8893802	1.3087158	3.2169172	2.7607731	1.9015354
1091	1.3876158	1	0.189422	1	0.3360127	1	1.5986518	0.7151754
1092	5.4229121	1	1.4262507	2.5621712	1.5119312	1	2.2243978	1.4304225
1093	2.2197617	3.0657099	0.3769452	2.5636706	0.6494581	1.7634189	2.1327931	1.2520854
1094	7.1933643	4.3663366	1	1	1.5526588	6.9320163	5.2814311	3.6206016
1095	0.6167477	0.587156	2.525041	0.4930802	0.8318771	0.3070307	0.2931814	0.4948971
1096	5.4479954	1	1	2.4721298	1.9679836	1	2.470003	1.602785
1097	0.5581424	0.5738759	2.8746852	0.3473119	1	0.2720788	0.269019	0.492462
1098	3.2295311	1	1	2.2977804	1.6662091	3.7841999	4.8959204	1.761691
1099	7.0246176	7.3942265	2.11179	1.7099629	1.9096087	8.5262697	3.1988465	2.8871141
1100	3.290454	1	1.5169145	1	2.1036081	4.6411128	3.2476899	1.9886737
1101	5.9160896	1	1	1.8648124	1	1	1	1.4949693
1102	1	1	1	1.9868368	1.3674026	1	1	1
1103	1.3752183	1.3782106	0.4488393	1	1.4963263	1.5515313	1.89123	0.6940762
1104	4.4529355	1	0.8034128	1.3919968	1.3067338	2.6131519	2.7512249	1
1105	1	0.9206031	0.3223298	1	0.4527725	0.7485701	1	0.7305753
1106	3.8348183	3.6975602	1	1	1	4.2991645	3.2323818	1.2968086
1107	1	1	1	2.5009993	1.8205372	1	1	1
1108	1	1	1	2.0157604	1	1	1	1.5262789
1109	1	1.9964901	0.2966893	0.6413186	0.4789315	0.4556932	1	0.5308268
1110	6.4065724	1	0.5747444	1.8527666	1.6630599	6.458703	7.7172017	2.5249762
1111	1	1	1	1	1.7921547	1	2.8742924	2.2002142
1112	1	1	0.7353295	1	1	1	4.2883512	2.0064322
1113	9.2012985	9.800981	1	1	1	9.7992288	6.512929	2.0053456
1114	1.1174713	1	0.2997066	1	0.5229692	0.7072826	1	0.7101972
1115	1	0.4893959	0.5464627	1	1	1	0.4481276	1
1116	5.1426544	5.4298519	1	1	2.3018431	4.0906883	3.287417	2.4931189
1117	0.5919139	0.5830902	2.6878744	0.4740458	0.8535388	0.2874406	0.2874313	0.5343502
1118	1.6957513	1	0.2196771	0.5142828	0.3062417	0.3677985	1	0.6261094
1119	0.5771489	0.4359633	0.34728	0.8137455	0.301362	0.2076044	0.6325656	0.3097409
1120	4.8781929	7.2133963	1	1.8165173	1	4.1149392	4.2480463	2.6087073
1121	4.4506956	1	1	1.7322149	1	1	1	1.5257898
1122	6.7146081	4.2480952	1	1	1	4.4708834	2.7663415	1.9659556
1123	17.632294	1	18.073695	0.4552362	1.1616417	1	1	5.0764893
1124	6.1555065	9.7339559	1	1	1	6.7956406	7.2488532	2.6330955
1125	4.3157647	3.3431701	1	1	1.2521117	1.8529609	2.2554271	1.3793149
1126	5.7211284	5.8278608	2.6217325	1	1.9242075	6.3985324	4.0351484	3.2891389
1127	3.6825664	3.7052266	2.2682915	1	1.7937343	3.3280468	3.4529436	2.7759386

Table 4

SEQ ID	Patient ID							
	295	296	300	322	339	341	356	360
1128	4.046596	5.1129876	1	2.7340002	1.2133762	4.8675522	3.1891002	1.7861755
1129	7.01726	1	0.5841529	1.7541592	1	1	5.5651963	1.6165972
1130	4.524138	1	5.6614043	1	1.8726641	1	5.3381369	3.2964043
1131	4.1030279	1	1	1.4608244	1.3723426	3.283039	2.850194	1.7886039
1132	0.6514008	0.6184504	2.0791702	0.4365058	1	0.2654412	0.2964836	0.5535495
1133	3.4174397	1	1	1	1	3.8303403	2.0041549	1.5673099
1134	4.2568433	1	1	1	2.4207359	3.5245863	4.1017281	1.8972777
1135	4.1921335	3.0315197	1.2618952	1.741543	1.39659	4.1960727	2.5642742	2.3410019
1136	4.1977556	4.2713889	0.7256392	1.2827908	1.503017	3.9410992	4.358367	2.3343886
1137	4.323721	1	1.5377094	1.6813243	1.8684183	4.4430152	2.1404831	2.4098367
1138	3.4332858	1	0.8405775	1	1.4778238	1	3.2966811	1.5836691
1139	2.3725403	2.7709801	1	1.2706472	1.6266083	2.958498	3.0109355	1.5925226
1140	1.9262526	2.0275447	1	2.5065935	1.5537655	2.8957053	2.0026412	3.8394338
1141	4.1812995	3.1889908	0.7072826	1	1.8052845	1	3.7144619	2.2409963
1142	3.6944871	1	0.7386581	1	1.6818139	1	3.6290564	1.4057663
1143	0.3311506	0.2549877	0.7772819	0.2765063	0.6100486	0.5021768	0.4070747	0.7564594
1144	0.3545207	0.2970479	0.7305255	0.3746036	0.6594287	0.4549381	0.4097081	0.7458732
1145	4.5384317	1	0.404222	1	1.69926	4.1554098	4.3526437	2.705483
1146	1	1	0.8960572	1.8941334	1.304299	3.6510709	2.6662058	1.9689753
1147	4.2413409	2.4877718	1	1.605155	1.3674831	5.2993378	3.4377232	2.1778814
1148	6.8676528	3.8707094	0.6105577	1	1.3428332	6.6943541	5.6958983	2.5625746
1149	2.7013124	1.2490144	1.7415071	2.9101796	0.5737579	1	2.3000322	1.3218388
1150	0.3388963	1	0.0766846	1	0.1961122	0.2217925	0.5643608	0.2435832
1151	3.1229659	6.7761722	0.4909456	2.3768931	1.4919397	7.9396852	5.3503441	1.4473602
1152	6.6347174	1	1	1	2.1272317	1	6.2352183	2.8441625
1153	3.0805505	1	0.6681423	1.341278	1	1.6979972	1	1.8532498
1154	3.3525524	2.5490889	0.6630379	1.8845035	1	1.820885	3.3214578	1.5108727
1155	2.5855433	1	0.5578217	1	1.7437806	4.6609912	5.1058354	2.4754657
1156	0.6777427	0.6489672	1.8930437	0.4561628	0.8106983	0.3671121	0.3065965	0.4923505
1157	2.5669526	1	1.4029815	1.8927198	1.311875	1	1.6751372	1
1158	0.5386313	0.4616877	1.3561387	0.2361494	0.8321387	0.3670091	0.3462924	0.5308014
1159	0.3962375	0.3557889	1.1994836	0.2005734	0.7873564	0.3662884	0.3469177	0.5594403
1160	2.6772382	0.8209429	0.3432405	0.317254	0.6531204	0.8929494	0.8175802	0.6963869
1161	0.3472352	0.2658734	0.5969356	0.412071	0.6567726	0.4258138	0.3262474	1
1162	0.3348322	0.385114	2.1521029	0.0856672	1	0.5388379	0.3292424	0.4299738
1163	0.361163	0.3932819	1.3992062	0.2231943	0.7486612	0.4613835	0.3455043	0.7700868
1164	5.7042288	4.5023999	0.7422703	1	1.3866194	5.1863617	1	3.3842117
1165	1	2.4595367	1	1	1.45416	4.1820425	2.7336397	1.6882773
1166	3.5762951	2.2082296	1	2.0278913	1	6.1968312	3.0546393	2.2071595
1167	6.3932268	13.737121	0.857157	1	2.1112545	1	8.6409858	4.0105304
1168	4.062054	5.7705041	1	1	1	3.9523426	3.3980741	2.1930719
1169	0.0377026	0.1131293	0.0302099	1	0.0522778	0.1800039	0.1788975	0.3704673
1170	0.2938861	0.179366	1.1802429	0.3048058	0.702742	1	0.2953717	0.4320977
1171	0.4848607	0.5634045	2.1843918	0.4101768	0.8583681	0.291964	0.2514888	0.5000227
1172	1	0.1159815	0.5402863	0.3610739	1	1	1	0.2237201
1173	9.1602748	1	0.5594665	1	1	1	2.8388022	4.2101366
1174	7.8921373	1	0.6418559	2.7086427	1	5.602957	5.8466056	2.4677675
1175	1	3.1864438	10.285538	1	1.5691792	1	1	2.8414145
1176	0.2465472	0.21227	0.6916484	0.2176408	0.6333502	0.3225161	0.2933522	0.7001368

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
1177	0.2674388	0.2571169	0.6783427	0.2395277	0.5791105	0.3576534	0.3033069	0.667993
1178	1	0.5267072	0.4502864	1	0.3913491	0.4632643	0.3765094	1
1179	5.7016284	7.3538378	1.3497447	1	1.9228391	5.7789317	3.5985215	1.8080094
1180	4.4421127	1	0.8545531	1.1833973	1.2501196	4.7563128	5.4004695	2.1014404
1181	4.6762346	1	0.7933244	1.6256242	1.3210206	8.0202902	5.0966758	2.3489765
1182	7.9323738	1	0.6258509	1	1.8481853	5.9145592	6.1848014	2.3124155
1183	3.394369	4.1647525	1	1	2.1470823	4.0562512	2.979137	1.839814
1184	1	6.4565392	1	1	2.6650813	6.4535824	4.3374545	1.8889263
1185	2.7193597	5.1564611	0.765584	1.6681698	1.2925576	2.3512869	2.2586291	1.9592525
1186	3.1432033	4.8671705	0.5874894	1	1.9775115	8.782362	7.0547105	2.0707148
1187	4.6999484	4.9371932	0.7611146	1	1.9224266	4.8815138	4.5019194	3.5773357
1188	2.5663427	3.03225	0.5846163	1.5299325	0.733489	2.6337373	3.142487	1.6607955
1189	0.5178893	0.6361813	1.7140915	0.4821617	1	0.4827926	0.28638	0.5053858
1190	3.5845286	1.3886493	0.1873097	1	1.1504537	0.3925435	2.4744592	0.500343
1191	2.2730998	1.9453792	1	1.9148322	0.632656	1.4436621	3.1888445	1.3244302
1192	0.3016262	0.2302443	0.055552	0.5641816	0.0994747	0.0690596	0.1326629	0.3842665
1193	0.6106765	0.6422999	2.0569889	0.4176497	0.7680692	0.304642	0.2687155	0.5087881
1194	0.4531462	0.5417349	0.3303449	1	0.4713152	0.1997999	0.474262	0.6948576
1195	7.5630936	6.7621946	0.5119239	1	1.6225436	6.6046061	5.8960062	2.5261883
1196	0.5234449	0.4351531	1	0.287113	0.6593986	0.3223788	0.3539346	0.5982203
1197	1	1	0.1148913	2.2647344	0.395615	0.3674553	1	0.8134939
1198	0.4464097	0.4836225	0.9464566	0.2742824	0.6179566	0.3261953	0.364305	0.6013902
1199	1	1	1.9341223	0.7470699	1	1	1	1.3728191
1200	1	0.5229576	1.1760016	0.3531821	0.7449889	0.4147901	0.3314013	0.6089462
1201	7.1879418	4.6634899	0.6987069	1	1	6.5502151	5.3474667	2.4019635
1202	1	3.0237878	1.1761412	2.5345442	1	2.2321057	2.1237963	1.7764646
1203	0.3322374	0.5703261	0.2429681	0.3184385	0.4100326	0.1328819	0.3701051	0.2649324
1204	4.4984836	5.9161813	1.2255205	1.8066419	1.5319026	2.9362103	3.2490163	1.4810845
1205	4.2683149	2.4888182	1	1.5067307	1.2067258	1.9623402	2.3225961	1.5142363
1206	3.4239933	2.9538777	0.7122653	1.7605683	1.5606775	4.4705676	2.9299785	1.3902466
1207	9.7811753	8.4286602	0.4376255	1.2855629	1.4228295	7.6541666	4.8641871	2.4732001
1208	3.6546222	1	1	1	0.6566317	4.5447753	1.8417511	0.7632676
1209	1	1	0.6360577	1	1.3271781	1	1	1.5207309
1210	2.4334633	2.3499573	0.4266194	1.5714951	0.624758	1.6828207	1.7131609	1.2594349
1211	3.91309	6.6653756	0.7725682	1	1.7655127	6.2007643	4.3139325	2.242806
1212	1	0.6440803	1.7986388	0.7390266	1	0.3391409	0.2490932	0.5520001
1213	4.2731885	5.7305732	0.2229934	1	1.4839712	3.3568417	6.2186457	1.9817758
1214	1	4.3654428	0.6163261	1	2.3630452	7.0450473	2.630064	2.1679177
1215	1	0.6372786	2.2251625	0.385849	0.7668518	0.3540635	0.2849684	0.5633108
1216	3.6306977	4.9404996	0.27247	1	1.4375289	4.0006727	5.6305857	1.6676652
1217	1	1	1.5833597	1	1.4445214	1	3.3021551	2.1892784
1218	2.8840867	2.3473413	0.6712226	2.1534054	0.7916928	1	1	1
1219	0.2290765	0.1550477	0.045858	0.3132916	0.1126649	0.0731094	0.4931798	0.1744241
1220	1	1	0.8241167	1	1	1	1	1.2196901
1221	9.0262033	2.5894377	1	1	1	6.7612378	1.7827286	1.77514
1222	1	1	6.4895106	1	1.5454248	1	1	1.5731789
1223	5.6977085	6.18228	1	3.2853858	2.7669003	1.5574001	3.0804258	1.7629645
1224	6.5145903	9.8810064	0.8942914	1	1	4.7548576	5.1581452	1.9134714
1225	7.2469685	7.1334363	0.4723097	1	2.3223981	5.4988151	4.5591996	1.8321612

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
1226	0.0617657	0.0326751	0.0795688	0.2083887	0.0959231	1	0.3054545	0.1258791
1227	0.3131421	0.2843274	0.4316895	0.3155442	0.395786	0.2097734	0.2788724	0.3729714
1228	2.7484683	1.9361795	1	1.6739649	1.6310554	5.9211556	2.8392075	1.648012
1229	3.4897732	4.0605759	0.7930704	1	1.3208496	4.7385211	3.7137682	2.2181767
1230	1	5.4731874	1	3.2201787	2.0108341	4.5022866	1	1
1231	1	3.9355473	0.7967977	1.6545944	1.2567902	3.3103238	2.1904647	1
1232	1	0.7045799	0.3784063	0.5957219	0.3430152	0.2421925	0.438373	0.681381
1233	6.8043291	5.9563666	0.5656198	1	1.8966902	2.0771146	5.0296482	1.7829586
1234	1	1	6.826841	1	0.8429846	4.9963569	1	5.716783
1235	1.5868351	1.3860405	0.4023907	2.0100427	1.3116537	1.7259684	1.7199765	0.6717674
1236	1	0.5145644	0.2352388	0.5217727	0.2818534	0.3747518	0.5765668	0.6234779
1237	1	1	0.5986668	1.6985109	1	1	2.5712365	1.4869655
1238	1	0.4954528	1	1	0.8059193	0.1653834	0.3325763	0.4975346
1239	9.428379	1	0.4574082	1	1.2464573	6.8357681	5.7303642	2.1536754
1240	5.2687307	3.5884058	1	1	1.8580553	3.9784536	2.6305858	1.4921359
1241	1	7.2548606	0.5012048	1	1.7366774	6.2806486	5.6666844	2.3438006
1242	1	5.052012	1	1	1.6338725	1	3.7403101	1.9099989
1243	2.8570684	3.232686	1	1	1.3943464	3.9828054	2.9642613	2.0159795
1244	5.4076813	6.6378672	1	1	1.5532826	5.6626746	4.2685617	1.9915653
1245	1	1	0.4107412	1	1.467813	5.7102359	5.466528	1.608121
1246	1	1	1	1	2.3899588	7.0137608	6.322438	1.9992109
1247	1	2.9772077	0.5291756	1	2.2274308	2.3226156	2.7162779	1.7130075
1248	1	4.3517885	1.5139529	1	1.7890961	1	1	2.1350502
1249	1	8.349078	1	1	1	1	6.9209079	2.4902626
1250	1	0.6060205	2.1647193	0.4550471	1	0.3166885	0.2803012	0.5606858
1251	1	0.2673376	0.6130994	0.2572141	0.4518066	0.4072601	0.3367834	0.7737399
1252	1	1	0.5056969	0.6472364	0.5849661	0.2971396	0.4260834	0.4536409
1253	1	1	1	1	1.9906816	3.6309179	1	1
1254	1	6.8087892	1	1	2.590186	3.5757375	4.0184338	2.3805751
1255	1	2.1920538	1.1094737	1.3160386	1.8334055	5.4977992	1	2.851056
1256	1	2.6537015	0.6163815	1.5827997	1.4894445	3.1818829	1	2.0750121
1257	1	0.6214552	0.2975977	0.4810978	0.5071128	0.3870385	1	0.4469691
1258	1	2.8336307	1.7131201	1	1.5214893	1	1	1
1259	0.4584634	0.3384467	1	0.319859	0.6881131	0.260554	0.3856094	0.5171004
1260	1	0.5936634	1.6749896	0.4362766	1	0.55989	0.2975727	0.557581
1261	1	0.6321264	1.8744414	0.3948375	0.7280962	0.339388	0.2722283	0.50591
1262	4.2546809	2.8346807	1	1	1.4962257	2.9577635	1	1.7923873
1263	1.5807528	1.908028	0.843691	1.3766857	1	1.3981052	1	2.0771675
1264	0.3245083	0.3234408	1.9287677	0.0864543	1	0.5145184	0.3222013	0.4934853
1265	1	0.3753947	1.2696658	0.3546795	1	0.4805618	0.3661495	0.5777832
1266	1	0.3315033	1.7510134	0.1214454	0.8648475	0.5302852	0.323659	0.4830757
1267	1	7.358979	0.3522354	1	1	2.1822313	3.1906351	1
1268	2.9952151	1.9449287	1	1.6189066	1	1.7543583	1	1.8643422
1269	1	1	1.1834695	2.0737973	4.7305576	6.5626528	10.671977	3.4080896
1270	3.7601561	3.3514397	0.4543552	1.4170074	1.4180706	5.364883	5.5119814	2.7822727
1271	1	20.0572	4.4088503	1.8477933	2.4844231	1	8.4178746	3.4143742
1272	0.445772	0.4127932	0.721255	0.2611281	0.663423	0.3805108	0.3136218	0.6462919
1273	1	3.9179508	1	1.5358817	1.2402999	2.6194463	2.1593082	1.8855778
1274	1	0.0476483	0.0264725	1	0.0304451	1	0.0795878	0.641688

Table 4

SEQ ID NO	Patient ID							
	295	296	300	322	339	341	356	360
1275	1	0.4723771	0.8658835	0.7682592	0.7332072	1	1	1.5654695
1276	0.4353096	0.3440058	0.6105117	0.274866	0.5492389	0.2102951	0.3252683	0.594673
1277	1	3.2413807	1.1570204	1.278231	1.475389	5.7288788	4.5059995	3.3992838
1278	4.9564203	5.2154128	1	1	1	4.4506412	3.3270144	2.1202005
1279	1	7.9078863	1	1	2.8811548	7.5891842	7.2967268	2.2641365
1280	1.8901136	0.1257153	1.43747	0.5654461	0.5929748	1	1.8215918	1
1281	9.0210802	1	0.7119553	1	1.289338	1.9330236	3.2216473	2.0705861
1282	7.118813	7.1569952	1.6335072	1.1639312	1.8536183	1	4.473564	3.104497
1283	1	0.6447961	1.8519991	0.3996811	0.7784221	0.3517571	0.287203	0.4868036
1284	1	1	0.5199062	1.1596456	1.7572324	6.7841364	3.8645995	2.2040943
1285	5.3433596	3.4200745	1	1.2161923	2.1510766	3.5034174	2.932787	1.6319802
1286	5.6799273	6.8443637	0.6674297	1.8687177	1	3.4530694	3.6224461	1.4578272
1287	1	1	1	1	1	1	1	1
1288	1	4.7151494	0.6286791	1.8726393	0.8037561	2.3485207	1	1.5755091
1289	1	1	1	3.1186819	1.3393923	1	1	1.8793401
1290	1	10.366348	1	1	1.5049789	7.2118584	4.3298996	1.9174344
1291	1	7.9026724	0.5025493	1	2.5834752	7.2972614	3.4155825	2.1445753
1292	1	1	4.0051025	1	1.4140964	1	1	2.5157642
1293	0.6357542	0.5491289	2.3789361	0.4333341	1	0.2955128	0.3070035	0.5029276
1294	3.8257753	1	0.5186347	1.3620927	1.502846	5.2190211	6.9390191	1.4976788
1295	0.7346792	0.6060387	2.409826	0.4394076	1	0.2881201	0.3124049	0.5289006
1296	1	1	0.5224603	1	0.5305955	0.2009874	1	1
1297	1	0.7556944	0.0916218	1	0.1949552	0.5162207	0.6215342	0.4029392
1298	1	1000	0.684463	2.5200959	1	2.5460555	1	1
1299	1	1000	1	1	0.2484504	2.4761996	1	1
1300	1	0.5162285	2.0674088	0.3281336	1	0.6572709	0.232768	0.4265328
1301	5.0898597	4.1041148	0.7036523	2.8136607	0.449251	2.3208035	1	1.6614579
1302	1	2.094817	1	1	1	1	1	1
1303	1.850731	0.3197384	1	0.6180087	1	0.3992223	1	0.2493293

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
1	1	1	1		1	2.2147482	1	1
2	0.233066	0.6108286	0.6187457		1	0.3952607	0.7199305	0.6178858
3	1	1	1		1	1	1.5616922	1.901404
4	0.2204252	0.4557918	0.5383118		0.3892502	0.1579805	0.1572748	0.7043966
5	1	0.7815453	0.4367181		0.3423804	1	0.8630688	0.7006584
6	1	1	0.4978563		0.3924856	1	0.8050279	1
7	2.1320593	1	2.119035		1.6690287	1.3278055	0.4167547	1.5451173
8	1.7202424	1.8666352	1.250723		1.5158514	1.3745919	2.6167681	2.1037934
9	1.1572998	0.7798339	1.4656255		1	0.3694004	1	1
10	0.2817816	0.3403946	0.3486104		0.7039875	0.6274812	0.1727446	0.4267268
11	0.4401716	1.1379164	0.3380667		0.515699	0.3050825	0.1260463	0.6807676
12	1	2.0646752	2.5298109		2.4944212	1	1.8535765	2.6350653
13	0.6256539	0.3450144	1		1.5722832	0.7128749	0.5439145	0.4401606
14	1	1	1.9631365		1	1	1.7630994	2.2152891
15	0.4145033	0.6532976	1		0.3736269	0.7174049	0.5942966	0.7000905
16	1.145849	1.9675398	1.523462		2.3174347	1.1292997	2.0905642	3.08271
17	1	1.4936544	1		1	1.8877282	1	2.7797054
18	1	1.4713565	1		0.6696347	1	1.1973226	1.588021
19	0.5890999	0.7924568	0.4955351		1	0.1916661	0.3332054	1
20	1	1	0.5953324		1	1	2.4556085	2.2752251
21	1	1	0.2956084		1	1.7999217	1	1
22	1	1	2.9181458		1	1.4698458	0.8420409	1.5802552
23	1	1.6709397	1.5818213		1	1.1783937	1.9584995	2.2501314
24	1.2167316	1.468824	1.2240759		2.1679438	1	1.624564	2.1101821
25	1	1	0.6346198		0.4592422	0.8256968	0.689067	0.7168759
26	1	1	1		1	1	2.2895122	2.1778595
27	1	0.8433938	0.4982717		0.3687768	1	1	1
28	1	0.2727094	0.6659347		1	1.545813	1	0.3557229
29	1.8682837	1.6703066	2.7292638		1.6865404	2.4063556	1.5690438	2.110423
30	1.5782166	1.2878685	3.9761538		3.9047312	1.6928398	1.4706429	4.2684115
31	1	0.6123422	2.6452181		6.7752199	4.8941368	11.020045	4.9096709
32	0.7657875	1.5200479	2.3156125		3.6096792	1	2.2090515	3.3782814
33	1	1.1967378	1.6431981		2.669089	1.2275508	1.2749883	1.7336919
34	1	0.6341455	2.0907738		3.1309867	1.1423421	2.2816479	2.5561358
35	1	0.4970241	3.2167931		4.0935032	1.3308715	2.542052	3.3899294
36	1.382993	0.5481986	2.2382148		2.7443354	1.1379838	1.6999921	2.4454817
37	1.2418987	0.5760759	2.6546568		3.0680523	1.2620492	2.1352217	2.6382246
38	1.2505935	1.4351792	1.6419687		3.5257502	2.6896202	2.1960507	1
39	0.4980327	0.2472161	0.694944		1.1927108	0.4665835	0.268565	0.5028601
40	1.516913	1.1496787	1		2.3675704	1.3273916	2.680884	3.4025346
41	1.5063345	0.7613941	3.601916		2.2412441	1	0.3143828	1.6559099
42	1.7306698	1.7041096	2.3870112		2.4692009	1.5497506	2.1235544	3.4176335
43	1	1	0.5121699		0.3653294	1	0.9200511	0.6857939
44	1	1	0.5362959		0.6098951	0.5469045	1	0.7562797
45	0.6557017	1	1.933732		3.2741478	1.8825822	1.4877901	2.7268867
46	1	0.7066484	1		1.6854377	3.7222912	8.5823664	1.8826189
47	1	1	3.1329895		2.3238568	2.4071869	2.8721937	3.4452803
48	1	0.7742742	1		1	0.2975394	1	1
49	1	1	1		1	1	3.2859476	3.9127708

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
50	1	1	0.120987		1	0.3997625	0.1545205	0.1273752
51	1	1	4.872863		1	2.4922578	1.7283514	2.2333296
52	1	1	0.4928755		0.3743	1	0.8216094	0.7568061
53	1	1	1		1	1	1	1
54	1	1	1		1	1.5470921	1	2.9944157
55	1	1	1		1	0.3577917	0.6133273	1
56	1.3416498	1	2.1482809		2.4929024	1.5886445	1.6457742	2.2737697
57	0.4460033	0.3153762	0.3201029		1.3677724	0.3852762	0.1683643	0.3534563
58	1	1	0.5855249		0.599778	1	1	0.7297651
59	1	2.6694793	1.5804544		1.4858535	1.1497438	1.7601835	2.1430642
60	1	1	1		1	0.4344076	2.7654235	2.9763822
61	1	1.8687621	5.2641062		3.5895737	2.4776775	1	3.7974954
62	0.7101646	1	2.4421927		1.9400667	0.8839991	1	2.4353003
63	1	1	1.9684627		2.9434929	1.2826596	2.0057686	1.9842335
64	1	1	2.2678765		2.8717182	1.3784975	1.5435982	2.1863088
65	1.4183681	1.2908462	1.8789756		2.6181852	1.5074207	1	1.854364
66	0.8273486	0.8292177	0.4364271		0.4099169	1	1	0.8107769
67	1.3650211	1	2.6756118		2.8059599	1.5493434	2.3814327	3.0854888
68	3.0534572	1.4133759	1.6128288		2.7362438	4.1507941	3.7333824	3.0487446
69	1.2884166	0.8333924	2.4525632		2.6235143	1.2950107	1.6257766	2.6840428
70	1	1	1		1	2.9337849	1	2.0062006
71	1	1	0.5746853		1	2.8011717	1	0.619335
72	0.4771879	0.4108596	0.3129806		1	0.3166069	0.24045	0.5444905
73	1	1	1		1	1	1	2.3642785
74	1	0.6820158	1.6342964		1	0.625801	1	2.3238533
75	1	1	1		1	1	1.8379718	2.875444
76	1.5756454	1.2244074	1.8331106		1.7369627	1	1.773818	2.5434733
77	1	0.8894835	0.4923503		0.4288653	1.1358087	0.9167192	0.7652787
78	1	0.8339563	0.4776022		0.3531923	1.1069104	1	0.74861
79	1	1	0.5201878		0.361026	1.1376967	0.8470595	0.7871866
80	1.4815955	1.3990613	4.2916259		3.017377	1.7977267	2.0009264	4.3625039
81	3.7082365	1.677548	3.5760927		4.0139466	2.0942782	4.5198033	4.4876976
82	1.6462475	2.2578975	1.140153		3.2440846	1.3685549	2.105036	1.839563
83	1	1	3.1834318		2.1480059	1.7157247	2.0228804	3.3044782
84	1.3768558	1.2118438	1.5788059		1	1.3826747	1	3.1332942
85	0.2098702	0.2919208	0.4137384		0.3212521	0.5331539	0.5291131	0.3959371
86	1.2310893	1.212101	2.7228304		2.830954	1.2585061	1.8925289	2.875444
87	2.5690018	1	2.3076994		2.5269327	2.1314296	1	3.1321261
88	1	1.3291899	1.5586517		1.9831842	1	1.5016733	2.2700836
89	0.7739249	0.8542757	2.2871379		2.3802823	1	2.645147	3.1270393
90	1.3293557	1	1.8522555		2.8655702	1.3682373	1	3.0903379
91	1.4748176	1.4821592	2.2132179		1.7752853	1.226981	1	2.5348925
92	2.3700426	1.5280807	1.7692718		4.1038817	1.6507357	1.1957329	2.7969508
93	0.9108634	0.8202649	0.4138301		0.4303023	1	0.8720368	1
94	1	1	1		1	1	2.2472674	1.6437172
95	1	6.611355	2.4868842		1	2.6343471	6.618101	4.7256555
96	1	0.7624031	1.9729307		2.8643909	1.2904327	1.4593232	2.4212005
97	1	1	1		1	1	1	2.2205585
98	2.8805798	1.8635883	2.5485383		1	1.9881955	1	1.7772325

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
99	1	1	0.6108583		0.4005331	0.8453558	0.7991209	0.7293505
100	1	0.9076166	0.5086976		0.3481571	1	0.8063656	0.7494052
101	2.1309589	1.5587378	2.2039943		1	1.2775293	1.7544135	2.4229144
102	1.3240598	1.3650011	1.5810521		1.5643674	1.610946	1.3945706	1.8643518
103	0.4855008	0.4754385	0.3911822		0.5078276	0.5459968	1	0.5130377
104	1	0.7770837	0.3635507		0.4122696	1	0.6533296	1
105	1.6474096	1	2.4023616		2.0908358	1.1576439	1.5917094	4.7764559
106	0.7016473	0.7500868	2.0691406		3.681468	1.4365441	2.0646187	2.2714785
107	0.3066873	1	1.6717351		1	7.8285198	3.8208039	1
108	1.880293	1.1787828	2.0242921		2.3843594	1	1.7701972	3.8911896
109	1	1	1		1	1.2153481	1	2.2936899
110	2.583655	3.3232616	4.422422		1.7548303	0.8283378	1	3.2209823
111	1	0.8727155	1.6563119		2.468763	1.1671798	2.1517038	3.0631946
112	1	2.3527181	0.6245785		2.5978588	1	5.1894595	1.4653503
113	1	1	0.4536667		0.391105	1	0.9469246	0.7705875
114	1	0.8285945	0.3989036		0.3934219	1	0.8244227	1
115	1	2.3951376	2.3411782		1	1.6970372	1	1.4741621
116	1	0.8858628	0.5291584		0.4028164	0.9500993	1	0.7473387
117	0.7803097	1	0.6003727		1	1	1	0.8127591
118	0.4567979	0.2946314	0.4106842		1	0.4070824	0.4944038	0.4422881
119	0.6772575	0.5772235	0.513521		0.3706247	0.7600248	0.7712652	0.6324654
120	0.5070563	0.4718376	0.5589587		0.3736871	0.6429381	0.7310912	0.583896
121	1	1.5845872	1		1	1	1.9022924	1.8492806
122	0.5185806	1	0.3139724		0.2610291	0.1766857	0.3596515	0.3853452
123	2.2790729	4.4444002	3.0895478		1.6461729	2.7198718	0.3247202	4.4336601
124	2.6013727	4.1135618	1		4.3766481	3.9313229	9.1179288	3.2983457
125	1	1.1908319	2.2419874		1	1.6980145	1	1.6206865
126	0.3208306	0.7423112	1.7449018		1	8.7169508	3.4861671	1
127	1	0.741223	0.5213958		0.3792891	1	0.8061088	0.6846813
128	1	0.751541	0.5254559		0.3875747	1	0.8342109	0.7259418
129	1	1	1		1	1	1	1.5029784
130	1	1	0.7981734		1	1	1	2.0539068
131	1	1	1		1	1	1	2.3737516
132	1	1	1.9625221		1	2.5404098	1	2.4015707
133	1.3328381	1	1.9048647		2.5902212	1	2.4836745	2.7806254
134	1	0.8558486	0.484225		0.4364983	1	1	0.7797481
135	0.8722746	0.8125685	0.5001196		0.4643249	1	0.8393544	0.7041014
136	0.2412611	0.2349889	0.4358226		0.2993434	2.1940828	0.1461078	0.1388276
137	1	1	1		1	1	1	1.8587274
138	0.7158996	1	0.6080911		1	0.6443432	0.2876728	1.6498794
139	1.6883189	2.1151868	2.2062652		1.9721703	2.7994327	1	3.4354191
140	1.5860744	5.2002148	1		1	1	1.8719518	1.8080375
141	1.368414	0.6973592	3.2548383		3.1725163	1.1723564	1.4385231	2.7257608
142	1.4106892	0.5916766	3.9424061		4.311847	1.2711738	2.2963606	3.3521815
143	1.4320094	1.3961727	2.5345584		1.9774934	0.7845827	1	3.2123617
144	1	1.4003573	1.8460236		1.9948935	1	1	2.1920648
145	1.6455158	1	1.9183091		1	1.5220567	2.2828158	2.7601961
146	1.7332125	1.7765828	1.6189857		2.1704451	1.3920654	1	2.4392854
147	1.3945085	1	1.1688746		1.5196575	1	1	1

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
148	0.7695863	1	1.8237426		2.3783302	1.2172587	3.1849344	1.8906296
149	1	0.8780476	0.4408232		0.3531905	1	1	0.7325764
150	0.6969419	1.6065983	0.7377889		1	0.7445378	0.2842004	0.6593303
151	1	1.9200948	1		1.8967662	3.525264	1	2.6605535
152	1	0.8106691	1.9780875		2.4403715	1	1	2.2783662
153	1	2.1831095	1		1	1	0.5775631	1.9388194
154	0.9218053	0.7877282	2.3375626		1.99833	2.126876	2.6772822	2.2074053
155	1	1	2.1672139		1	1	1	2.9746579
156	1	1	2.2952703		1	1	1	2.3457954
157	1	1	1.9013991		1.5905719	0.7478865	1	2.1835711
158	2.7045258	3.1430777	1.5147089		1.6737245	1.7606078	1	3.4154864
159	1	1	0.5473366		0.457215	1	0.8951483	0.7494963
160	1	0.8395555	0.5591439		0.3798232	1.1065269	1	1
161	1	1	0.5521109		0.4079683	1	0.7892155	0.7492351
162	0.5713207	0.3291961	1		1	1	0.398281	0.4855197
163	1.7566672	2.2255586	1.7384748		2.7395826	1.5067096	1	1.389581
164	2.8659685	1.7478646	2.1652895		1.7391328	1.8114054	1	1.6888012
165	1	0.8212542	0.4332609		1	1	1	0.7400202
166	2.6724782	2.551965	2.9040522		1	2.1664886	2.134735	3.0154212
167	0.3072007	0.3206193	0.4265664		1	1.2852186	0.3538014	0.5449914
168	1.3676295	1.329912	3.3853733		2.93431	0.4077124	0.1526662	2.2416174
169	1.3522629	1.2281468	1.6488768		2.0837001	1.0892627	1.3158471	1.945431
170	1.5302541	2.1051261	1.4684447		1.5649654	1.5734814	1	1.9703161
171	0.7910854	1	1.6736155		2.3953551	2.1791138	1.4683603	2.337903
172	1	1.4158194	2.1851773		2.4678876	1	1	2.2543576
173	1.6750682	1.4331908	2.0680196		1.9602285	1.7634024	1.6987587	2.237818
174	0.8280825	1.1771703	2.3548054		2.965187	1	2.2965859	2.9330259
175	1	0.6444437	1		3.0832743	0.6579819	1.8255051	1.9808313
176	1	1	2.3947598		1	3.3289992	1	2.4165789
177	0.4870404	1	0.6790386		1	0.478161	1	0.4125306
178	1	1.4306781	1.5226957		1	1.6939246	1	1.6914593
179	2.1392393	1	5.2386621		3.7368106	1.8178057	2.1985766	4.9499033
180	1.3060825	1.2103896	1.5914274		1.7895263	1.3646082	2.283261	2.3907609
181	1	1	1.6305022		1	1	1.8523301	1.5750843
182	0.6817304	1	1.6579385		2.0772946	1	1.3403077	1.658644
183	3.5421997	1.9438865	2.4170452		1.6141802	2.0267262	1	1.6624032
184	1.5469911	1.0624359	0.6645283		1.6059491	0.4922105	0.4605957	2.246576
185	1	2.2515366	2.3209999		2.9872032	1.6026607	1	2.9040864
186	1.2291582	1.8122556	3.9998861		1.2970897	0.6312428	1	1
187	1.2511765	0.6296345	2.6422724		2.4068689	1	1.2765697	1.8869624
188	1.4061805	0.7460111	3.4715873		3.6838062	1.212714	2.161237	3.5789662
189	1	1	1.5613406		2.7841847	1.4194139	2.3425383	2.0902328
190	1	1	0.4388729		1.5461233	0.2069888	0.2338146	1.5228903
191	1	1.2188478	1		1.6223069	1.6125387	2.5167101	1.9877757
192	0.9144168	0.8768209	0.574896		0.408198	1.0655518	0.8111775	0.7015466
193	1.3460572	1.1142236	3.3323021		3.220518	1.1450552	1.5841175	4.0686615
194	0.21863	0.285728	0.3594086		0.4033626	0.3414925	0.6707298	0.4823144
195	0.8715876	0.869174	0.4517687		0.3907449	1	1	1
196	1	1	2.6097535		3.3054013	1.6643912	1	1.8805121

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
197	1	1	0.5780645		0.4060334	1	1	0.7596676
198	1	1	1.7269839		3.4349225	1	1	2.1675418
199	1.5885857	1	2.9555769		1	1	0.5145299	1
200	1	1	1		1	1	1	1.7969987
201	1.7249413	1.3048442	4.7996009		2.5923436	3.2019074	1.4843006	2.7382787
202	1	1	1		1	2.4572659	1	1.5459961
203	1	1	1		1	2.5121044	2.8876908	2.0567865
204	2.3059488	1	2.8749509		2.5792786	1	1	3.0645151
205	1	0.7373353	0.8915536		1	1.3917116	1	1
206	2.3316417	1	2.1365694		2.5318044	1.3176263	1	3.8431323
207	1.5824506	1	2.2791811		2.1044911	1.2135395	1.6117598	2.6279471
208	1	1	1		1	1	1	2.5531699
209	0.3078023	0.2637071	0.2398266		1.2276105	0.3690021	0.2216223	0.3001378
210	1	1	0.5126903		0.4421606	1	1	0.7188778
211	1.3953241	1	2.8569871		4.1772797	1	1.920548	2.1557614
212	0.4679953	0.7057482	1		1.5317642	0.5618481	1	1
213	0.8985808	0.8311666	0.4776308		0.3442057	1	1	0.683987
214	1.3923381	1.9129227	1.9845265		2.4062864	0.8465882	2.0266887	2.0447729
215	1	0.7704062	3.8210881		1	2.1571608	2.0637089	2.3520639
216	0.8934134	1	0.4075366		0.3590629	1	1	0.7596114
217	1.3433958	1.8505993	2.0698236		1.5625061	2.0883446	1	1.6784956
218	1	1	1		1.4736785	1	1	3.2826471
219	1	1.4319147	1.3314754		1.4907864	0.7066191	1	3.4120817
220	1	1	1.4476683		1.7370928	1.6011543	1	1.741795
221	0.8919585	0.8932921	0.4664717		0.3682871	1	1	0.7687415
222	1	0.9024329	0.5218204		0.3962146	1	1	0.7293735
223	0.8393546	1	0.5492886		0.3427547	1	1	0.6964398
224	0.8572708	0.8321361	0.5739451		0.4612753	1	1	0.7032281
225	0.7871988	1	0.6390686		0.5746187	1	1	0.8407518
226	1	3.6608665	1.9467679		1	1	1	2.8702645
227	1	1.3574728	1.8856348		1.859371	1	1	2.3769262
228	1	1	2.3133547		1.6677489	1	1.654233	1.6278229
229	1	1.5664244	2.019217		2.5587028	1	1	1
230	1.3057489	1.4891731	3.5003788		3.2753804	1.1903055	1	3.269293
231	1	1	0.5092257		0.3840398	1	0.7891091	0.7105432
232	1	6.2897663	1		1000	1	1	1
233	1	1	0.725911		1	1	1	1
234	1	1	1		1	1	1	1
235	0.2353685	0.4657734	1		1	1	0.2209307	0.654915
236	0.5862785	0.801558	1.9605498		3.8835975	1.510748	1	1.8301645
237	1	1	1.4995217		2.9592617	1.282016	1.5392096	1
238	0.066853	0.1294051	0.2762022		0.3929066	0.1880075	0.1855721	0.6101152
239	1	0.9011963	0.4633254		0.3568538	1	1	0.7334136
240	0.1331924	0.8686101	0.2754872		1	0.3869175	0.0905589	0.6276121
241	0.1723283	1	0.3665961		1	0.4537628	0.1417672	0.7015093
242	2.3717181	4.6480196	2.1369855		3.7519182	1.7408167	1	3.2984634
243	1.3935129	0.5997687	3.3218367		3.0109809	0.8566257	1.8197945	2.9894758
244	0.6693943	0.7517785	1.6140446		3.1676073	1	1	2.3752768
245	1.6023381	2.0474126	1.6550005		1.9435339	2.9869415	1	1.4215127

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
246	1.4605315	1	1.9673599		1.6849481	1	1	1
247	1	0.4590959	4.6906123		6.446405	1.4517796	1	4.231475
248	1	1	2.0300497		2.6404338	1	1	2.2700836
249	0.2864378	0.7405009	0.5432115		0.3018751	0.4883972	1	0.4314683
250	0.6574163	0.7348522	1.9664785		3.8596925	1.4584362	2.3628085	2.2018308
251	1.3159124	0.6833315	0.7836879		1.5506357	1.1877788	1	1
252	1	2.9834507	3.5558143		3.5092182	1.8646769	1	2.563083
253	1	1	1		1.615529	0.7660018	1	1.8851534
254	0.9497447	1	0.4322349		0.3576515	1	1	0.7061133
255	0.3635292	1	0.4268526		1	1	1	1
256	1	1	1		1	2.753875	1	1
257	1	0.8925997	0.3758016		0.3248096	1	1	0.7079795
258	1	1.2249021	1.9569661		1.864002	1.6794879	1	1.9232856
259	2.4612754	1	1.9529609		2.1865366	2.636703	1	1.810446
260	0.1381461	0.1766819	0.228833		1	0.3443473	0.0820705	0.1847562
261	0.6825366	0.8276943	1		2.8505482	1.3351366	1	1.7591679
262	1	1	1		1000	1	1	1
263	1	1	1		6.4013459	1.3393355	0.5410927	5.1278725
264	1.8208462	2.6620499	2.28684		2.1862619	1	1	2.9295859
265	1	1	0.4615399		0.3407211	1	0.4793825	0.6988517
266	1	0.001	0.0579426		1	0.0616907	0.0235556	1
267	0.6303081	0.7185492	2.3603769		4.1409944	1.4176289	1	1.9350442
268	1.8650055	1.8733919	2.5027653		6.7910854	2.4381179	1	2.8191332
269	1.718095	1.4831485	3.6097656		6.2647916	1.8263375	1	5.6042475
270	1.5327448	1	1.7503639		2.2217842	1.2868584	1	3.1627817
271	1	0.9202198	0.3794203		0.3238018	1	1	0.7226552
272	0.8056181	1	0.5704395		0.5155844	1	1	0.8578662
273	1.4377437	1.203534	2.5802228		2.2606072	1.3872286	2.0259873	2.3338884
274	0.2089471	0.3910942	0.5470364		0.467987	0.4465102	0.2620759	0.5336593
275	1	0.8261708	0.4850409		0.3693032	1	1	0.7173489
276	1	1	0.4665237		0.2593503	2.1190564	0.5554167	1
277	1	1	1		1	1	1	1
278	0.6416976	2.12319	1.6331715		2.8526511	1	1	2.149844
279	1.338772	1.2371293	2.2723378		2.7915547	2.2765083	1	2.6669258
280	1	0.2386195	0.4458696		4.0930217	2.2483316	1	0.4015243
281	1	0.7926151	0.3940318		0.4365722	1	1	0.7902019
282	0.5180076	0.7923282	1		2.1281711	1.8142349	1	1.6094534
283	1	1.9955358	2.2323526		1.9355349	1.6040021	1	3.0178829
284	1	1.5111346	1.5780396		3.0563314	2.3660257	1	0.8597016
285	0.4591875	0.1982478	0.5983757		1	0.4608112	0.1999444	0.4465321
286	0.6052856	0.884834	1		2.1249873	1	1	1.3045699
287	1.8858752	1	4.134773		2.905403	1	0.389085	2.32216
288	1.5058908	1.3344132	1.4836325		3.3173745	1.8784304	1	1.5112361
289	1	1	1.8618404		2.9516066	1.3523784	1	2.6170082
290	1	0.8058712	2.1193419		2.8303784	1.2768909	1	2.535588
291	1	0.717738	2.5443282		2.5830117	1.3984651	1	1
292	2.0010708	1.4780933	1.9394137		2.3939545	2.6824672	1	1.672209
293	1	0.7812485	0.7792152		0.6132969	0.5051656	1	1.216288
294	1	1	3.3295217		1	1	0.5231344	1

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
295	1.3592141	1	2.5819682		3.5395563	1	1	3.3514522
296	1	1	0.4481365		0.4098083	1	1	0.7769425
297	1	0.8403766	0.6225323	0.5296473	0.4917022	1	1	0.671713
298	3.1556909	1.6538552	3.2289797	2.1282697	2.0756868	1	1.3559868	2.4419279
299	1	1	0.5707733	0.4676927	0.4126136	1.1822942	1	0.6742367
300	1	1	1.6587216	1.2948167	2.8024831	1.8506117	2.3305886	1.2633228
301	1	0.2381644	0.1955894	0.6370286	0.7438	1.2661568	0.5519049	0.4347707
302	1	1.262306	1	3.6325305	3.7988681	1	1.8201128	1.9322123
303	1	0.2579496	1	0.3518887	1	1	0.5772997	0.3696239
304	0.1645485	0.4513599	0.4473441	0.4457738	0.5398805	1.1219652	0.7401503	0.2330616
305	1	3.1824602	2.0339063	1	1.3608551	1.5490973	1	1.5362819
306	0.2607679	0.3588641	0.2203745	0.3264461	0.0914081	0.2770686	0.2286745	0.1477724
307	1	1.2163549	2.6643247	2.6867035	2.596754	3.4560901	2.3805247	1
308	1	1.5969925	1	0.8446055	1.4250419	0.5403772	1	1
309	0.3870741	0.1601612	0.2492667	0.3681598	0.3178577	0.3823798	0.1458221	0.2143119
310	1.7818887	0.6770102	1.3877349	0.5923891	5.1181639	2.1062854	0.0500589	0.7390438
311	1	1	0.4946222	3.690297	0.4772598	0.2874326	0.7125094	1
312	1.9643815	1.1783772	3.6073923	2.507089	3.7334006	1.6751442	1.4628561	2.9142511
313	1	2.5146501	1.4954603	1.5533989	1	1.5337506	1	1.7019566
314	1	0.3222021	1.321514	1	0.5386416	0.6971559	1	0.6776329
315	0.0294433	0.1359639	0.2261153	0.0802827	0.2787762	0.1272351	0.0945797	0.5400836
316	1	1	1.6082492	2.8237341	2.8682707	2.8692971	1.3192017	1
317	1	1.4329237	2.2842219	1	5.5766382	2.6238189	1.3142776	1
318	1	11.449688	1	1.4021563	1	2.3723153	0.0552562	1
319	1.4687843	1.1568805	2.3760285	1.955068	2.7266171	1.425672	1.6695967	2.1078239
320	0.104726	0.0243952	0.0554661	0.1723281	0.3754462	0.1296958	0.3288255	0.2093315
321	1	0.7051744	0.7111053	0.5338514	1	1	0.6224827	0.6401627
322	1	1	1	3.1308027	3.0583185	2.7608813	1.2625619	1.1922039
323	1	1	0.6386409	0.5237172	0.4251976	1.2123743	0.9384236	0.6514757
324	1	0.6267458	0.683474	0.5897305	1.3156139	0.5952789	0.053629	1.0959024
325	1	0.001	1	0.3135738	0.7052823	1	0.2009172	0.6712008
326	1	0.9126915	0.6168632	0.4902169	0.5555827	1.3294294	1	0.7582777
327	1	2.0752702	1	1	3.5145933	1	1	2.3395009
328	1	0.4976276	1	0.6117492	2.6288334	2.195146	0.2385642	0.6849959
329	0.7150985	0.5364758	0.4860507	0.4628106	1	1	0.7518493	0.6568934
330	1.3504937	1.2105875	1.6957601	1.8426028	3.7530631	1	2.2806478	1.8467677
331	1	2.0569491	1	2.179228	1	1	1.9833421	1
332	1	1.4658859	1	2.2454805	2.1153668	1	1	1.818461
333	1	2.4712117	2.4347422	1	1	2.6440563	1	1
334	1	1	0.6227531	0.4794037	0.3663701	1	0.8725811	0.6540854
335	1	0.7539944	0.5543456	0.7489732	0.2188003	1.0618356	0.652433	0.6039631
336	1	3.468673	1	1	1	1.9491924	6.5427429	1
337	1	1	0.7647502	0.5378132	0.423722	1	0.9315447	1
338	1	0.6200782	1.4163252	0.5839836	4.8585352	2.2303315	0.0619125	0.7663892
339	1	1.4228926	2.2938909	1.6770037	2.1277559	1.2868618	1.3126567	1.305436
340	1	1000	1	1	1000	1000	1	1
341	1	2.3515508	0.6376019	4.185216	0.423548	1	1	1
342	1	1	1	1	2.4991861	1	1.6182484	1.6711507
343	1	2.2361437	1	1.0821007	2.126169	1.287682	0.2608976	1.6538357

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
344	0.5225996	0.1827658	0.2780375	0.7531279	1	0.5926342	1	0.6377243
345	1	0.2884782	0.5403894	1	1.1462935	1	0.3312983	1
346	1	0.7108429	0.6300878	0.5281767	0.3409028	1	0.8806048	0.6043225
347	1	0.7481479	0.5723697	0.4983553	0.2906921	1.1709183	1	0.6013694
348	1.943295	0.6331661	4.6861054	1.4844396	3.3079246	1.7721687	2.3501798	3.8169432
349	1	0.6641992	1.4645985	1.8456689	1	4.0654202	1	1.6780994
350	1	0.4064574	0.6835059	0.6300793	0.7855193	0.6531088	0.6629907	0.8178078
351	1	2.1013174	3.0057691	1	2.6991452	1.3235728	1.72883	1
352	1	1.8055187	1	1.6788967	3.9183049	1	1	1
353	1	0.8053766	2.4183769	3.1052499	3.2722189	1	0.3792691	1.4372972
354	1	0.5783611	1	1	1.7995763	1	1	1
355	1	0.1390999	0.3488403	1	0.5348414	0.4801709	0.8567764	1
356	1	1.6463269	1	1	1000	1	1	1
357	0.341755	0.2231771	0.6952522	0.1144915	0.5202528	0.5638956	0.4433055	0.2998214
358	1	2.0800285	0.6678598	1.7637873	0.382817	1	1	0.5639471
359	1.0623269	0.7563488	0.6368526	0.4797305	0.3883295	1.2161612	1	0.7067127
360	0.521027	0.5737611	0.3884422	0.5307254	0.6248365	0.6942736	0.6516159	0.271217
361	1	0.7473169	1	1.4408393	0.3928536	0.5861031	1	1.5572495
362	1	3.4836108	1	1	1000	2.0613338	1	1
363	1	1.6883408	3.2071567	1.2733011	1.5910005	2.0002076	1	2.7906167
364	1	1.2713577	2.2824403	1.6889495	2.2975774	3.2058514	1	1.7518983
365	1	1000	1	22.921204	1	1	1	1
366	1	1.6684567	4.1462948	1	4.7182944	1.1836203	1.7378763	3.275434
367	1	8.4351948	1.805811	2.8408959	0.3913433	0.2357429	0.469567	4.5122373
368	1	1.6817029	1	1.7333732	1.4024978	1.6857458	1	2.3327691
369	1	1.8676541	0.480375	0.7784364	0.3240174	1	0.5696938	0.4177726
370	0.7060869	0.7782906	1	0.5823466	1	0.3555575	1	1
371	1	1.2687065	1.739715	2.0400286	3.0960984	1.5287525	1	1.8383555
372	0.0463251	0.3258129	0.641647	0.0753491	1	0.0319353	0.0669031	0.0521309
373	1	1	1.9825546	3.0825775	4.0640929	2.9069127	2.2992921	1
374	1	4.7129942	4.999402	2.0744322	1.9783695	1	0.4043578	2.8052708
375	1	0.3904907	2.5492043	1	3.8263887	1.2009295	1.2555884	2.5107211
376	0.5870126	0.9293408	2.6796136	1.6453382	3.5769009	2.0793635	1.5246022	2.3271301
377	1	1.2547678	0.6916208	0.7524698	0.5530492	0.7514136	0.0949307	0.9023065
378	1	0.3059485	0.7821518	1	0.9262264	0.5936538	0.3104007	0.5460928
379	0.9176057	1	0.6250988	0.486402	0.6067192	1	1	0.6153065
380	1	0.5684487	0.4733098	1	0.4031895	1	1	0.4848396
381	0.909775	0.8261708	1	0.4906506	0.3860327	1.1672388	0.902854	0.7531611
382	1	2.0741325	3.0518494	0.7709985	5.1235093	1.7431235	1	2.2818539
383	1	0.3467951	0.5032243	0.7988871	0.3823507	0.5060043	0.3626946	0.594809
384	1	1.3522298	1.856211	1	2.3285085	1.8700979	1	1.5597989
385	1	1.8524888	1	4.9992389	5.0408015	1.848082	2.2093641	1.9941665
386	0.9028582	0.7941683	1	0.5432377	0.3902992	1.2053372	0.8737778	0.7913386
387	1	0.8428596	0.5049233	0.4167837	0.3363369	1.1561312	1	0.6696251
388	1	0.8530589	0.6610058	1	1	1	1	1
389	1	2.8838421	1	1.3213002	3.450671	1	1	3.1363778
390	0.3157677	0.6624482	0.5631106	0.4602684	0.3234397	0.4150126	0.4435511	0.4235567
391	1	0.4776544	0.3989308	0.6045046	0.4977714	1.290848	1	1
392	2.6952912	1.4102202	3.8430003	1.7591408	3.3630214	1.5239232	1	4.8834687

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
393	1	0.1913229	0.6055826	1	1	0.560216	0.2292769	1
394	1	0.8599442	0.5809258	0.4895898	0.3769705	1.1065725	1	0.675676
395	1.3140439	2.1717132	1.4593882	1.5906283	2.3718147	1	1	1.7204595
396	1	1	0.4604674	0.2502851	0.1537505	1	0.1205399	1
397	1	3.5882844	3.9869885	1	1.9840908	0.8931138	1	1.9594133
398	1	1	1.5887777	1	4.0526642	0.9201354	1	1.3457538
399	1	0.4393008	0.4311671	0.4950827	0.1417859	0.3369759	1	0.3051583
400	1	1	0.3738746	0.3480835	0.4973051	1	1	1
401	1	0.0916649	0.438266	1	0.3046263	0.3306594	0.171138	0.347942
402	1	0.2435559	1	1	1	1	1	1
403	1	1	0.432203	1.04993	0.2295747	0.5912621	0.3121178	1
404	1	0.329305	0.2666712	0.7006203	0.5660369	0.5078594	0.2202905	0.3459285
405	0.088035	0.0962847	0.1105014	0.450689	0.3191453	0.346696	0.0525506	0.253036
406	1	1.4547666	3.8872432	4.536571	2.8941139	2.9633091	1.2762914	3.6433021
407	0.2463422	0.3127151	0.7393921	0.4455765	0.2443164	1	0.6846295	0.4940985
408	1	1.1948978	2.1367254	1.7612714	3.4627121	1.2776783	2.4337854	2.5063634
409	1	0.1419193	1	0.2477363	0.3403042	0.6886699	1	1
410	1.9655324	2.0706009	3.4093009	3.9424084	4.8655928	3.201206	1.7181106	2.07075
411	0.3051851	0.2317639	0.5882319	0.403515	0.310988	0.5288557	0.2220942	0.3842845
412	0.8455557	0.8359942	0.504491	0.5614231	0.3347291	1.0943994	1	0.6713714
413	1	3.6691861	1	1.6535283	2.7563162	3.7968299	1	1
414	0.0344598	0.0915461	0.2068453	0.1183306	0.0232192	0.0205134	0.2042365	0.0561856
415	0.0052672	0.0114853	0.0462351	0.0322964	0.0105099	0.0088769	0.0703725	0.0180064
416	1	0.5998973	1	1.5808682	3.2886797	1.6096869	1.8411875	1.5802012
417	1	1.8025608	2.1615044	1.8255373	3.9909483	1.5600669	1	1.632654
418	1	1	1	1.2324388	3.2980203	1	1	1
419	1.9221745	1.6903095	2.8420039	2.9929127	1	1	0.6011551	1.3835898
420	1	1	1	6.1928681	0.5384537	0.2638223	0.4809704	1
421	1	1	0.5341683	1	0.5426577	0.5925039	0.449057	1
422	1	1	0.4028871	1.8941773	0.8799342	1	0.4449418	1
423	1.763854	1.3041319	1.9589749	1	3.8608625	1.6729594	1	1.1845028
424	1	0.532964	0.7301979	0.6813973	0.4255735	0.2697402	0.2135266	0.9347971
425	1	2.4219169	2.4439603	0.5659973	1.9369982	0.477143	1	2.5161211
426	1	0.3066212	0.4849525	0.3460422	1.0931316	1.300706	1	0.3889323
427	2.2680945	1.8251654	4.9453301	3.8435356	3.0169959	2.8603666	3.7169365	3.8782898
428	1	0.7785182	0.5696326	0.4868	0.4811784	1.0994051	0.8433602	0.5649813
429	1	1.8254226	2.7028787	1	2.9242375	1.4004673	1.5043748	2.0921729
430	1	3.4302501	1	4.9927548	4.8686901	2.20065	0.4005961	1.8983577
431	0.4542485	0.5504739	1	0.5255426	0.402403	0.2878542	0.1463613	1
432	0.1663482	0.0216648	0.3183316	0.0373459	0.4745314	0.1413093	0.0124537	0.0890977
433	1.7855043	1.4216857	1.761674	2.1017484	2.5421304	3.3403306	1	2.0434618
434	1	1	0.5597999	0.5429672	0.3091574	1.2134322	0.8596861	0.6618849
435	1	1	1000	1	1000	1	1	1
436	1	1	0.6432596	1	0.2657607	0.7272284	1	1
437	0.6483401	0.8110549	0.5539783	0.518144	0.6416106	1.0385472	0.629592	0.6810084
438	1	1.8415476	1	1	3.4961976	1.4080026	1	1
439	1.7221465	1	3.2977536	5.4325118	3.039004	1.277732	1.35135	3.0801415
440	1.8398507	1.7368838	2.1526531	1.8022097	2.1809039	1.3470144	1	2.0743288
441	2.1714763	2.1913896	2.0125974	1.6739579	2.0028415	1.7604019	1	1.6276509

Table 4

SEQ ID	Patient ID							
NO	392	393	413	452	505	517	534	546
442	1	1.1323864	0.1891685	0.8263674	0.3683747	0.6919892	1	0.4105569
443	1	1	0.680254	0.4802234	0.3890047	1.1298072	0.7494968	0.672823
444	1	0.8273678	0.6061262	0.6085521	0.5013351	1.2270464	1	0.7055527
445	1.3582339	1.7779579	2.5923372	1	4.436755	0.6200544	1	1.6346176
446	0.5078911	0.5413331	0.4467159	0.4768188	0.3159923	0.3493177	0.2162539	0.5765526
447	1	1.5119656	1	1.8539305	2.8823651	1.3334692	1.4234595	1
448	1.633398	1.3543666	2.2629659	2.5127688	3.1935966	2.2492734	1.4487365	1.8602614
449	1	1	2.3186092	3.5716645	3.0798533	2.1453267	0.806567	2.2143867
450	1	0.2376203	0.4638836	0.4044727	0.6564497	0.4253153	0.2260747	0.2919655
451	1	1.4785781	1	1.8351619	1.427993	2.6368352	1	1.8138927
452	1	1.3635172	1	1	1	1.8045333	1	1
453	0.2547126	0.7471487	0.5278127	0.4129308	0.2507476	0.3685202	0.3225285	0.4866215
454	1	1	1	0.7937032	2.6950596	1.9336618	0.5967123	1
455	0.8466093	0.8443237	0.7475137	0.5053207	0.4487021	1.1476299	0.858945	0.6967653
456	1	1	0.5310534	1	0.4857094	0.7315365	1	0.6198792
457	1	1	0.5520172	0.3915611	0.3375271	1	1	0.5165619
458	1	2.2456109	2.1623562	1.9014975	1	1.6728368	3.0008447	2.7176653
459	1	1.4614144	1	1.8819209	1.8680993	2.857331	1	1.4043405
460	1	1000	1	1	1	1	0.1346263	1
461	0.8834366	1	0.555964	0.5503047	0.3254791	1.2468163	0.8056442	0.7325358
462	1	4.0368843	3.1038573	6.8423293	2.8226397	7.3786526	1.1035367	2.2723162
463	1	0.8834094	4.2344925	2.8228814	3.8994149	0.8345173	1.230773	4.3110199
464	1.3734209	1.1202087	2.4602612	1	3.4569491	1.0318244	1.4693509	3.2847471
465	1	1.7462719	2.5622245	2.0229385	2.078791	0.9529982	1.5833677	2.2947719
466	1	0.6491922	0.2750246	2.0836131	1	1.2375024	0.6054492	1
467	1.7823916	1.8709978	2.1873552	1	3.3889133	1.6372987	1.7432133	2.4396717
468	1	1.369067	1.8193584	2.2071583	2.7202763	3.1749511	1	2.3837313
469	1	1	1.5627025	1	2.0038368	1	1.3097746	1
470	0.8672783	0.7996982	0.6125162	0.6079528	0.4543747	1.0721383	0.7523324	0.6606169
471	0.064286	0.6397249	0.2902554	0.4347829	0.1975509	0.23989	0.0670295	0.3108465
472	1	0.8906706	0.528162	0.4449554	0.3319938	1.1435211	1	0.6931699
473	1	1	3.4737852	2.0835468	3.722494	1	1.8412599	3.596515
474	0.4888702	0.4056857	0.8755835	1	1.2401237	0.915191	0.3462031	0.6507738
475	1	1.7934497	1	1	3.4454161	1.6907745	1.4358767	1
476	1	1	2.9459564	1	3.8117584	1.6121399	2.9255752	3.3758135
477	0.7701661	1.245538	2.2442226	1	2.4714846	1.8869777	1	1.5215615
478	1	1	0.5825912	3.2834941	0.4349488	0.7069603	0.3312374	1
479	1	1.403147	2.6732491	1	3.6337099	1.7765918	1.2492079	2.7934846
480	1	1	1	1	0.8035393	0.3740625	0.1922563	1
481	1	0.4932946	0.5350245	1	1	1	1	0.4701998
482	1	1	1	2.2351266	2.2418333	1	1.400451	3.991692
483	1	0.8662161	1	0.5776584	0.3774438	1.1419037	0.8358712	0.7368107
484	0.4826631	0.2834231	0.4145218	0.686422	0.4499828	0.6922422	0.1942246	0.4594564
485	1	1.7044163	3.5028928	0.6889803	2.583105	1.5523322	1	2.3496719
486	0.0513533	0.0441111	0.0719252	0.0595294	0.0292815	0.0922795	0.0330242	0.139881
487	1.959076	2.5334659	2.8110631	2.1285466	2.5549372	1.6772216	1	2.1590853
488	1	0.8529798	0.6000034	0.7909117	0.4607015	1.1617118	1	0.7728688
489	1	1.7756035	2.4911183	1.8094853	2.9187251	1.5338042	1	3.2217683
490	1	1.5608351	1	1.6108317	4.5916121	1.8797567	1.7655588	2.2421613

Table 4

SEQ ID	Patient ID							
NO	392	393	413	452	505	517	534	546
491	1	0.3041283	0.5541812	0.6710078	0.8900404	0.6822844	1	0.6848994
492	1	0.8799074	2.3999316	2.0132918	2.930627	1.3472444	2.6011432	3.1979116
493	1	1	1	1	1.2199531	1.5240075	0.4601092	1.2385206
494	2.0825919	1	1.9207014	2.1893622	3.5840212	1	1	1
495	0.0499372	0.066409	0.0656933	0.2690935	1	0.1466139	0.3953323	0.2599723
496	0.349268	0.4266778	1	0.4513231	0.5723359	0.6902491	0.400329	0.6280983
497	1	1	0.5746514	0.3584341	0.4611887	0.5074761	0.3837822	0.7530322
498	1	1	1	1.5840059	2.307085	1	1.3712135	2.0277694
499	1	1.5705199	2.561178	1.540273	3.0117479	1.5473572	1	1.6206296
500	1	1	0.0872628	0.2236379	0.5105155	1	3.0852642	1
501	1.2181122	1.0564508	2.5810572	1.4597376	2.2615933	1.2487173	1	2.0692201
502	0.1767746	0.2324959	0.3910323	0.3821896	1.498256	1	0.5743084	1
503	1	1.6475635	3.1279662	1.6235	2.9368494	1.554011	1.5728117	2.3421096
504	1	0.8134588	1.7835419	2.8035317	3.2487213	1.7119318	1.449768	1.6368178
505	0.2681664	0.4230077	1	0.7410264	1.4828184	0.4679135	0.679065	1
506	1	1	1	1.7183079	3.946946	1	1	3.4123337
507	1.3585777	1.4168186	2.2998402	2.0820884	2.1633433	1	1.1280048	1.679197
508	1	1.9686378	1	1.7497804	17.473868	1.5107995	1	1
509	1	1.6246028	1	3.6130763	3.7570513	1	2.1030035	1
510	1	1	0.4303702	0.5223294	0.3877936	0.2783104	0.4398248	0.444877
511	14.999783	8.7151851	4.1293273	5.9334515	8.2446783	6.502365	1	3.9339227
512	1	1	0.4843078	0.4446198	1	1	1	0.4231572
513	0.8417766	0.635026	0.6417736	0.3813678	0.1428578	1.131486	1	0.6929931
514	3.1651811	1	5.9716686	2.3992681	3.5883086	1.9611279	1	3.7628617
515	1	1.2148512	1.7486206	2.1445906	1.1649468	2.2552833	0.7116	1
516	1	1	2.3649551	1.9720953	1	1	1.8505733	1
517	0.3032301	0.2640632	0.4917931	0.3333233	0.4981403	0.2938794	0.16176	0.1923998
518	1	4.3803851	1	3.3321471	2.08177	7.1185788	1	1
519	0.7693768	0.6989223	1	1.6102371	0.7127019	0.8331835	0.4095347	0.7371163
520	1	1	0.2012579	0.1524045	0.396459	1	1	0.151661
521	1	2.2351841	2.0476163	1	3.9621123	1.6120172	1	1.6311268
522	0.3589048	1.7632476	1.4440012	1	1.6530505	1.1928958	1.6467581	1.9763835
523	1	1	3.5523611	1.380708	2.7342315	2.1905543	3.2184243	1
524	0.6957224	0.8381804	1	0.5326174	0.4424797	1	0.7855748	1
525	1.5962151	3.9163825	4.0790586	2.9860843	1	1.5096343	1	2.1929491
526	1.2023817	2.3947122	2.7560826	1	4.2756128	1	1	1.8615353
527	0.6406331	1.6343866	2.7943311	1.6214886	1.5487313	0.4883502	0.8123595	1.9994731
528	1	1	1	2.0780552	2.208334	1	1.5910064	1
529	1	1	1	1	1	0.5296223	0.3916344	1
530	1	1	0.3544473	1	1	0.5703501	0.2905247	0.5706184
531	1	1.8123842	2.6700781	1	2.8403117	1	1.8954014	1.965539
532	1	4.7064255	1	1	1	1	1	1
533	0.2273055	0.2566141	1	0.1675261	0.1998408	0.1696033	0.0931112	0.4352027
534	0.7875511	1.5335414	1.8474221	1.4788709	1.8940469	1	1.7250726	2.0855161
535	1	2.0748547	0.5612063	1	1.5103737	1	1	1
536	1	0.8783444	0.579461	0.528471	0.4339396	1.168335	1	0.7256055
537	1	2.7497182	0.4993374	1	0.4382688	1	1	1.6538061
538	1	1.9073334	2.4511936	3.3230101	2.7621627	9.2540551	1	2.7472324
539	1	3.8652575	1	3.6556638	1	1.6516412	1	2.0685717

Table 4

SEQ ID	Patient ID							
NO	392	393	413	452	505	517	534	546
540	1	1	2.6000148	2.321639	2.1444882	1	1	1
541	1	1.6240389	2.033765	3.2311281	1.8151602	1	1.7820192	1.3888502
542	1	2.1660447	1.864767	1	3.3311716	1.7488191	1	2.3213434
543	1	0.8432059	0.5760504	0.4866443	0.4688171	1.0676615	1	0.6847573
544	0.1565236	0.331788	0.224652	0.2513155	0.5181787	0.5542215	0.1054357	0.320571
545	1	1	3.3305322	1.1799927	2.5576099	1	1	1.8614604
546	1	1	1.8377538	2.4381534	2.2779358	1	3.8270488	1
547	1	1.5638622	1.9854241	1.9721547	2.2393207	1.6389391	1	1.8471369
548	1.5678903	1.4029491	2.0407146	2.7530516	1.2870702	1	1	1.4644448
549	1	2.1390676	2.2972524	1.8882744	1.8687048	1.3955306	1	1.7406796
550	1	2.0251543	1	1.0839648	1.5176819	1	1	1
551	0.0780978	0.3395636	0.1438335	0.4702132	0.1497692	0.3335494	0.4438054	0.0160693
552	1	2.2446019	1	1	1	1	1	1
553	0.3296215	0.4692259	1	0.4693296	0.6460233	0.1943098	0.3514225	0.4659798
554	0.7667063	0.8507638	0.5400603	0.5040518	0.2837876	1.0651395	1	0.6583065
555	0.0472287	0.0487606	0.3320003		0.022032	0.0409654	0.2306211	0.0950272
556	1	1	1.9986681		2.3185155	0.7770553	1	2.0952085
557	0.3325582	0.4954215	0.7639317		1.5317642	0.4933559	0.6528377	1.3120708
558	1	3.1944698	1.8198864		1.6948361	2.2567398	0.2690101	1.7260182
559	1.434037	1.3859339	1.9761728		2.788982	1	1	1
560	1	5.3550043	1		1000	1	1	1
561	1	0.6232142	1.5666066		2.0484382	1	1	1
562	2.1853119	1	2.7337682		1.8568907	1.803874	0.3860172	1.6933808
563	1	1	0.4905373		0.3271839	1.099934	1	0.6905337
564	1	2.1577151	2.5223968		2.1039822	1.7093254	1	1.8040142
565	1	1	0.4867298		0.3560014	1	0.8027716	0.756125
566	1.3269239	0.6459474	1.82117		3.0770042	1.4858247	2.3460002	2.9202365
567	1	7.3758356	1.4466186		0.4315617	3.195886	3.2618014	0.8015511
568	0.8840768	1	0.5024553		0.4011379	1	0.8362219	0.7362473
569	1	1	1		1	1	1	1
570	0.5247171	0.4220184	0.4324904		0.2135471	0.4994731	0.4404743	0.3891534
571	1	1	0.506146		0.4570678	1	1	1
572	1	0.6744084	2.2519944		2.3018763	1	1	2.2737138
573	1.1823848	1	2.7605025		3.3677764	1	1.3240693	3.1577028
574	1	0.7248607	1.3138404		1	0.6480495	0.2313817	1
575	1	1	0.5652934		0.4811641	1	1	0.7577679
576	1	0.7144141	0.5422988		0.440153	1	0.5395809	0.7356319
577	0.8250849	0.5872348	0.6786239		1	1	0.3553168	0.6565854
578	1.1991047	1.6352472	1.9234367		1.6840919	1.4270212	1.5995929	1.7074908
579	0.8336513	0.7969283	0.5111232		0.4251091	1	0.8012539	0.6882709
580	1	0.6879415	1.534862		1	0.3091801	0.7741467	0.8352506
581	3.1594987	1.3454236	1.9933584		2.8553427	2.2169932	1	3.0603545
582	1.4232761	0.8825982	2.8851551		2.7233961	1.8440116	1	3.3383776
583	1.3754622	1	2.2375303		2.2123211	1.3565736	1.8052729	3.0521679
584	1	1	2.4766412		2.0973884	1.5948001	1.148124	1.9027742
585	1	2.3881238	1		3.623963	1.6955425	1.7302353	1.5272188
586	1	1.2850491	2.0510607		3.0532477	1.6099322	3.4465268	1
587	0.2556905	0.4294873	0.3068104		0.8190378	1	0.354538	0.5052463
588	0.2015456	1.5887025	1.8903854		1	1	0.2436888	1

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
589	0.3078253	0.5929626	0.6908207		0.2027571	0.1829339	0.2789872	0.2498443
590	1	1	0.437735		0.4139911	1.4102794	1	1
591	0.6921697	1	0.5165729		0.3916707	1	0.5441832	1
592	1	0.9086356	0.484233		0.3741028	1.2179089	0.827994	0.8029718
593	4.3120761	1.1820473	2.2501474		1.6825042	0.6257347	4.1303301	4.3432325
594	0.5060619	1	0.7461477		1	0.649276	0.5790915	0.6518709
595	1	1.3310497	1.9097544		3.0591524	1.6549834	1.1433447	2.103171
596	0.8754257	0.8191768	0.5153085		0.4444789	1.1888483	0.68928	0.754785
597	1	3.2554973	3.0478232		1	1	1	1
598	1	1	1.7628768		2.2191632	1	1.6928023	2.3253735
599	1	1	1		1	1	2.8115804	1
600	1	1	1.9110847		1	4.590834	3.0432598	1
601	0.771622	0.7308556	1		1	0.3084366	1	0.712933
602	1	1.4216758	2.0946149		1	1	1.5702802	2.1466981
603	1.6114539	1	2.5244277		1.900132	1	1	2.4405093
604	1	1	1		2.5769867	1	1	2.8292306
605	1	1	1		0.3643484	1.1315933	1	1
606	1.7757873	1.1616982	1		1.7583769	1.2042564	1.6085765	2.9028094
607	1.7468059	1.3522001	2.2644836		2.8473995	1.4434871	1.2838316	2.5471886
608	1.5314985	2.2032211	2.6712156		1	1.9017418	0.489019	2.3500901
609	0.3603989	1.6124547	1		1	0.3190765	0.6162003	1
610	0.213347	0.5913699	0.5021708		0.5474941	1	0.2809211	0.3759418
611	0.4965194	1	1		1	0.5481043	0.3644007	1
612	0.8946493	0.8697181	0.5727357		0.3588648	1.0907199	0.8226703	0.704993
613	0.8398076	0.855077	0.5259943		0.3229858	1	1	0.668337
614	1	0.8284659	0.5020732		0.3182322	1.2449458	0.7272141	0.5818521
615	0.8499608	0.7822773	0.5768339		0.4097238	1	0.6860386	0.6960569
616	1.9306438	1.225644	1.9127503		2.2291847	1	1.7754993	2.6788303
617	0.1519274	0.1557491	0.296876		0.3581023	0.4576262	0.2638961	0.1802466
618	0.1642791	0.1054057	0.2793175		0.3274333	0.4566296	0.2622858	0.1633012
619	0.4032312	0.836469	0.6032026		0.7533237	0.7677798	0.30498	1
620	0.3567366	0.38411	1.3028241		0.7116024	0.4393588	0.2583308	1
621	0.4475242	0.1769589	1		2.2203667	1	1	0.7523212
622	0.4216934	1	1		2.4788744	1.546054	0.8918835	1.713601
623	2.1966248	2.5032539	2.4432802		4.36923	1	2.0551954	2.8241297
624	2.5433179	2.0632111	1.9840332		2.1429136	1	0.6263081	2.2879548
625	0.6993528	2.1295113	2.2613338		2.829918	1	1.5144699	1
626	0.6720848	0.693234	0.6092939		0.3746304	1	0.3029783	1
627	0.6511874	0.6664152	1		0.728266	0.2155821	1	0.6643829
628	1	0.757437	1		1	0.2216763	1	1
629	1	0.6396557	1.7272897		3.3115346	1	2.1563109	2.2602569
630	12.35652	3.4429225	2.891522		5.0312154	3.9650457	1	7.3676375
631	0.2112321	0.3227363	0.4048043		1	1	0.5377592	1
632	0.3549614	0.5702492	0.4462776		1	1	0.5854223	1
633	1.1483003	1.2432825	3.1808942		1.7539459	1.1997949	1.6143713	2.7057308
634	1	1.7390701	1		2.8287679	1.4346486	1	1.3127418
635	0.7179824	0.7316668	0.8324199		0.699291	0.3232313	1	0.7352632
636	0.6973448	0.7709998	1		1.7638132	1.4384048	1.6723393	1.471135
637	1.3259405	1.3657431	2.0388188		2.8029089	1.5138734	1.7258991	1.9959322

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
638	0.4561458	0.5835943	1		0.7254725	0.7067303	0.5356157	0.5481267
639	1.8120866	1.4347736	2.2777619		3.8188211	1.7299538	1.3585635	2.1390465
640	1	1.4291942	1.8872157		2.9664508	1.2306033	1.4721686	2.3396786
641	0.1174432	0.3861083	0.3053739		0.7010166	0.4166377	0.3439351	0.655045
642	1	1	0.5054262		0.3436585	1.1716925	1	0.7589502
643	0.8808922	1	0.4778388		0.2794289	1	0.8956962	0.6658956
644	3.5831063	1	0.3789273		2.5602087	1.4984884	1	1
645	0.3808372	1	1		2.292475	1.447228	0.8589371	1.7347006
646	0.8504591	0.8128752	0.5552572		0.3905783	1	0.8850484	0.7012911
647	1	0.8256168	0.5402065		0.3829663	1	0.7242506	0.6545579
648	1	1	1		2.6031055	1	1	1.3772599
649	1.5609371	1.407747	2.3662938		2.1811919	1	1	2.6790633
650	0.7298041	1.1645869	1.6988447		1.5221501	0.87339	1.1048384	1.4234613
651	1	1.6654988	1		1	1	1	1
652	2.0954374	1	2.1315892		4.1306727	1	1	3.2623688
653	0.7528187	1.9340533	0.3752602		0.185701	1	0.1915842	0.3073514
654	0.2448717	0.3933596	0.5249124		1	1	0.1959823	0.4530752
655	1.3623534	1.1111174	1.476347		1.3966736	3.8311492	1	1
656	0.4908057	1	0.6585167		1	1	0.2181544	1
657	1	1	0.6882698		1	1	0.3152346	0.8007455
658	1.2102572	1.2038902	1.7382682		1.7451942	1	1.351194	2.4141802
659	0.1987776	0.4404582	0.5219321		0.3765314	1	0.1970113	0.4875585
660	1	2.4290989	1		1	1	1.9699513	1
661	0.3864721	1	0.4371269		0.5034928	1	0.2773523	1
662	1	1	1		1	1	1	1
663	1	1	0.1631044		1	1	1	1
664	1.6140463	1.2944273	3.9144558		2.5010541	1.3153935	2.600421	4.9709362
665	2.2843103	4.040505	1		1.7659613	3.0045198	0.1482947	2.1847066
666	2.4257377	1.3899503	1.5672498		1.9326864	1.4734216	1	2.1342057
667	3.8555325	3.073414	2.1688201		1	2.7146189	3.0613638	1.252808
668	1.6880269	3.0798739	2.6237933		1	1.384285	1	1.8898177
669	2.223145	1.8627771	1		1	1	1	2.4125416
670	1	2.9588973	1		1.5834793	1	1	1
671	1	0.6870413	0.3097691		1.9875449	1.5425584	0.4621092	1
672	2.0585512	2.5532214	1.8611694		2.1905279	1.4416857	1	2.0306208
673	2.1472407	2.2447503	2.9450669		1.9500136	1	1	2.2387938
674	5.2454533	3.1241928	1		0.558979	1.5439306	0.4582833	1
675	4.879924	3.1896125	2.0964156		1	1	4.0136861	2.3790065
676	1.1609292	1.6094671	2.2307643		1.4253325	1	0.4811458	2.0226658
677	1	1	1		2.6622489	1.9928255	2.2227345	3.7382051
678	0.7883607	1	0.5680698		0.3212684	1.0650245	0.8600809	0.6646791
679	1.7015382	2.0585814	1.5971019		1.4442012	1	0.4157225	1.7684924
680	1	1	1		4.9489359	1	1	1
681	2.9803844	1	1		1	1	2.3329107	1
682	0.2016804	0.3794703	1		0.1965226	0.1328157	0.1915458	0.2588612
683	1.6497894	1	1		3.3218076	1.9923426	1	2.1154953
684	0.3869694	0.2816127	0.6601012		1	1	0.5042417	0.4037379
685	0.3531677	0.4162906	1		1	0.5766513	0.3955928	0.7355851
686	0.28481	0.4131942	0.5961733		1	1	0.7556587	1

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
687	0.1068421	1	1		1	2.4545835	0.001	1
688	1	0.8896714	0.6810456		0.493497	1	0.8394221	0.6928944
689	0.7495964	0.6004315	0.8123016		1.3656791	0.2352063	0.5888489	1
690	1	2.5592262	1		1	1	1	1
691	1	1	1000		1	1	1	1
692	1	0.6762286	1		1.5149936	1.3967724	1	2.1085933
693	0.8402743	0.8090665	0.5550887		0.4240136	1	0.8104475	0.8053859
694	1	1.5758323	2.2015071		1.8387402	1	1	2.0732585
695	1.3644486	1.4443991	2.0283143		1	1	2.3093267	1
696	0.1542138	0.061532	0.2297415		0.7498501	0.456461	0.0315165	0.070319
697	1.4383216	2.756178	1		0.6731839	2.3478311	0.8717851	1
698	1.311812	1.4456753	1.4045646		2.1894254	1.8686567	1.4717984	1.9736823
699	1	1	0.505866		0.3213455	1.0955723	1	0.6915309
700	1	3.4261249	1.3658846		1	1	1.7013818	1
701	1	1	0.4643719		0.3093195	1.1584922	0.7953141	0.6450552
702	3.5569878	1	1.5678656		2.8763466	1.4583355	1	1.5748696
703	0.7706028	0.8389323	0.4578904		1	1.2536157	0.6981533	0.7873006
704	2.3225617	1.4806852	2.5436647		2.5352165	1.1465184	2.5555079	4.0697365
705	0.8479601	0.6035081	1		1.193877	0.2665283	1	1
706	0.9317015	1	0.5456221		0.2870344	1	1	0.7411894
707	1	1	0.5396918		0.3011632	1.133801	1	0.6995288
708	1	0.3373674	1		1	1	0.2610998	1
709	1	0.6829358	2.6291366		3.424613	1	1.2012693	3.6849938
710	2.1235821	1.6075776	2.9565722		6.2138947	2.3409014	1.373526	2.5669985
711	1	1.7525834	1.3612886		1	1.3779915	0.9129483	1
712	1	2.3982637	1		1	1	1	1.7595363
713	2.1830899	1.7270506	1		3.5923527	2.1206432	0.5435736	2.0627543
714	1	1	1		1	1	1	1
715	0.8223104	1	0.4769199		0.2870782	1	0.7867361	0.6760517
716	1	1	0.3319864		1	1	1	1
717	0.7411916	0.8303851	0.4895717	0.5006123	0.3650191	1	0.7365937	0.6767943
718	1.5077308	0.6700557	1.6371918	1	2.435078	0.7979596	1	2.0577482
719	18.238778	8.3950803	2.8865781	5.6374946	7.5001977	6.1764046	1	3.3279192
720	17.931092	9.8917025	2.2560455	5.4651776	5.1806352	5.4141671	1	2.5520419
721	1.5273368	1	4.4403166	1.7344298	3.6408346	0.8340727	1	2.762176
722	1	0.6417628	3.1552852	2.5684919	3.2437822	1.4019161	1.654876	3.9637865
723	1	1.705554	2.5747741	1.9083735	1.3337006	0.6092304	1	2.6153049
724	1	1.9243684	1.3899761	1.6353877	4.7487094	0.7752002	1.2010382	1.4709243
725	0.3821455	0.3607041	0.3466214	0.2861968	0.3895923	0.3033695	0.5952182	0.3145537
726	1	5.0311205	2.9844132	2.8471997	0.5043575	2.2092049	0.3582497	1.7201393
727	1	1.5815601	1.5491627	1.7986927	1.7902627	1	1.8709048	1.939267
728	0.4747464	1.3033207	0.7204601	0.6335441	0.4455344	2.8849121	0.4522946	0.4027983
729	0.5744789	1.4162547	0.657417	0.6122242	0.4728835	2.2317497	0.6462698	0.4791363
730	0.1759149	0.2265109	0.311933	1.2186	0.8461715	8.5052785	0.6866472	0.4000279
731	0.4479593	1	1	1.3468354	1	3.420552	0.5317023	0.2464655
732	1.6532193	2.1663019	1.5384932	1.8793807	1.9276015	1.6690346	2.2876109	3.305069
733	3.9162939	2.2546627	1	1.7794224	2.2031475	0.0861393	4.0956518	1.2045414
734	1.1875907	0.4828876	2.1446597	1.9716199	3.5375773	1.3829129	2.3492955	2.5890031
735	0.3058886	0.3366156	0.5385363	1	1.7542111	0.7055651	0.5231461	0.3960135

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
736	2.0018918	3.3606556	1.7138688	4.7150398	1.4600762	1.8230689	2.1445599	1.4630538
737	0.2194438	4.4009321	1.4966075	1.3632205	1.3389088	0.3649557	0.1472849	1
738	2.3985309	1	3.1150912	5.2023243	3.5561943	2.4340854	2.2432843	4.2788854
739	0.5477328	1	0.6586501	1	1	0.6584901	0.6472345	0.4140999
740	2.5925149	2.1821499	1.8065913	1.6762734	1	2.7161904	1	2.6730194
741	1.6697013	1	1	2.4797286	2.4142993	2.6979997	1.4581645	1.9476038
742	2.5292962	1.4350605	2.1013835	1.4666735	2.3364161	1	2.6656999	3.682938
743	0.046754	1	0.0878287	0.4683924	0.2353855	0.1480627	1	0.1030335
744	1.3193733	1.7278618	1.7698069	3.5275746	1.6304014	2.3673863	1.3921868	1.2558382
745	1.6298518	1	1.8300154	1.8969226	2.6297591	1.5239998	2.2073334	2.402757
746	0.0055733	0.0560218	0.0873693	0.0488687	0.0152466	0.1212482	0.5558815	0.0544671
747	1	1.0861781	2.397965	1.7456263	3.2724545	1.2016347	1	2.2816285
748	0.4150096	0.5221316	0.6267276	1	0.493102	1.5896411	0.1404774	0.2901288
749	0.0175625	1	0.0502156	0.0696339	0.1782898	0.0445223	1	0.0424618
750	0.3349603	1	0.3210405	0.2999745	0.4366188	0.2758727	0.1312039	0.3725502
751	2.5048637	1.790482	2.5370488	2.5050736	3.6669214	1.7336103	1	2.9080156
752	1	1	1	4.1697488	0.5668917	0.1946165	16.878602	1
753	2.0952329	2.0496385	2.6534532	3.868529	4.6469378	3.0485209	1.6343442	1.918216
754	1	1	0.5148431	0.5842391	0.3590185	1	1	0.6552401
755	0.0143326	0.0598799	0.1127471	0.1152653	0.0224096	0.0554766	0.1479111	0.0615376
756	1	1	1	4.4730032	0.4673868	0.001	17.00733	1
757	1.6885048	1.1171716	1.6256412	2.7686595	2.3671678	0.8151231	1.5472192	2.7467425
758	2.86704	1	2.3744219	1.5697195	2.9773638	1.2024779	1.3441355	2.188535
759	1.6032235	1	1	1	2.0383598	1	1.355712	1.557827
760	1.498199	0.469315	4.1695321	1	4.0400415	1.3927556	2.1034286	2.5659294
761	1.379049	0.5423619	2.8604314	2.0860707	2.5487708	1.4057719	1	2.5214756
762	1.2976206	2.8073525	1.3909671	1.9291326	0.7569201	2.1815547	1.2990744	1
763	0.1233318	1	0.4165002	1	1.4072064	0.3276468	0.3119816	0.3943979
764	1.8651027	3.8152504	1	0.6000645	1.7182668	2.0282027	0.2499136	1.6090051
765	1	1	1	1	1	1.7316709	1	1
766	1	1	1.55915	2.0791116	2.47438	1.3343661	2.5076807	2.3860083
767	2.1108468	1.0840413	2.5831837	2.5181836	2.3332049	1.3918894	2.1533859	2.6902933
768	1.3995078	1.2873244	1	1.588736	3.6145531	1	2.3287922	2.3273645
769	1	1	2.0803692	2.4059722	2.8695871	1.3485552	1.430744	2.2609204
770	1	1	1.4041153	0.6520985	1.2027066	0.2510129	0.5123177	1
771	8.892764	1	1	1	1	2.6266092	2.9813581	1
772	1	1	2.7306221	1	3.7057733	1.6683064	1	2.8979852
773	0.7298388	1	1	0.3675374	1	0.485008	1	0.6263913
774	1.7598926	1	1	0.1953708	1	0.7118586	1	0.7510007
775	2.616016	1	1	2.9274419	3.8242766	1.9716146	3.4972318	3.6456016
776	1.3704579	1	1.9256306	2.2261545	2.7391513	1.3566655	2.5481381	3.0593414
777	1	1	0.5586066	0.5793153	0.3953931	1	0.8901543	0.6846458
778	4.6828112	1	1	11.093412	6.3372334	3.0065666	6.2753343	2.1381558
779	0.7593148	0.474934	1	1.6238223	2.7801811	1.1424709	1.098064	1.9166645
780	0.0771927	1	0.2718901	0.5265109	0.3775404	0.396293	0.2467226	0.11592
781	1	1	3.6534812	5.1257176	2.8734966	3.3188897	3.5850475	4.210654
782	0.0435023	1	0.5165729	0.0390744	0.0329749	0.0368949	0.1906723	0.134062
783	2.460542	1.2534521	3.2757276	4.0795485	3.6188756	3.0789997	1.2944243	3.4492664
784	0.7902759	1.2369513	2.8944774	1	2.9308504	1.2538457	2.0154802	2.7719518

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
785	0.1269542	1	0.3478934	0.0892982	0.5132992	0.1131072	1	0.0780113
786	1.2261819	1.6126327	2.3952825	1.5920601	2.8988686	1.8312865	1	1.8205745
787	0.7573756	1.2484267	1.9981677	1.8968677	1.7175884	1	1	1.7783953
788	4.118524	3.8978833	1	1.5870407	1	1.5947234	1	2.434787
789	0.027289	1	0.0922157	0.0773622	0.0502925	0.0246069	1	0.0771007
790	1.6091833	1.3199898	1.5802552	2.5888139	2.587525	2.3467273	2.234134	1.6615066
791	0.4136472	1.4499291	1.3586972	1	2.9697416	1.2378781	1	1.6172265
792	1.4389192	0.732755	0.8149181	0.5130258	0.501483	0.571109	1	0.7975324
793	0.0909437	0.175564	0.3449476	0.2297754	0.6322726	0.1142264	0.1680022	0.6427762
794	2.6494595	1.2745135	3.4440761	2.003246	3.1787465	1	1	3.1834813
795	0.5084588	1.4047199	1	0.6944714	0.3627854	2.4577878	0.5830389	0.592981
796	1	1.7105497	1	0.5501104	1	0.6802454	1	0.6532116
797	1.9425566	1.4749871	2.6742263	1.9623377	6.7522152	1.2394955	2.2794267	2.3084136
798	2.7393771	1.6612252	1.992725	2.3309837	4.1301824	1.2922891	3.8851522	2.3474637
799	1	1.3613903	2.0233123	3.0811261	4.0660027	3.1409614	2.4260942	0.6671502
800	0.7516275	1.3053586	2.0548052	2.9197357	3.5291469	1.1640498	2.3341316	2.5268529
801	0.7356352	0.8161892	1	0.3355917	0.7486322	0.3009319	1.1945586	0.5670056
802	1.2765735	1.7342821	3.5417557	2.5090115	5.5797526	1.4061475	2.7329841	3.876663
803	1	0.6497165	1.4927141	0.5120904	1	0.240028	0.5646416	0.7604552
804	0.3450359	0.2397077	1	1	0.5440193	0.271373	0.2206293	1
805	1.4661966	1.4458237	1	2.5759737	2.94586	1.4525249	2.3122344	2.3368981
806	1.7018619	1	2.578404	3.976909	4.0935032	3.7464663	2.2913606	3.583129
807	1.3733682	1	2.0704582	1.8355222	3.6218887	1	1	1.928181
808	2.0679094	1	2.2215629	2.7791242	2.2146441	1	2.2031795	3.2924704
809	2.4643829	1	4.0724358	3.4782628	2.3425496	1.5512897	0.6432605	2.06211
810	1.2626104	1	2.3940414	1.8993451	5.4164852	1.619269	2.4670573	2.4607835
811	1.439556	1	3.9284691	1.8185871	4.2842444	1	1	2.4862036
812	1	1	2.8255391	3.2007844	3.6651835	1.6633007	3.0165018	3.3316383
813	1.5607555	1	1.9088824	1	2.8866056	1.5354447	2.8152989	2.5784573
814	1	0.6080191	2.7672025	1.7437192	3.9530774	1	1	2.5762292
815	1.3681175	1.4849687	2.7921981	1.6581791	4.2471219	1	1	2.807657
816	1	1	0.5294712	0.7206418	0.3429506	1.1198188	1	0.7175884
817	1	1	0.5587417	0.8173058	0.3566801	1.1387377	1	0.7023356
818	1	1	0.5656139	1	0.4027697	1.1516468	0.8724023	0.6849096
819	0.7412069	0.6461057	0.6220779	0.4811838	0.6124173	0.59961	0.7681027	0.6226774
820	1	1	0.6115903	0.5002334	0.3980022	0.8583882	1	0.6964975
821	1	1	2.2983951	2.3013095	3.0680523	1.5352607	1	2.1619642
822	2.7198745	1	2.4648894	1	2.8392688	1.4273968	1	3.7536918
823	1.4995383	0.6593815	2.5559583	1.8394951	2.4495613	1.3227295	1.6838547	3.2923531
824	0.3851521	0.1439176	0.4261212	0.8401597	1	0.5545281	0.1122368	0.4866728
825	0.2464541	1	0.4909598	0.4131368	0.346128	0.45387	0.494725	0.4346869
826	2.2930931	1.455281	4.9553793	4.9158682	2.9286306	4.3803419	1.8401023	2.5037832
827	1	0.8963193	0.4937376	0.5945851	0.3783634	1.1443567	0.9069544	0.6648321
828	0.1340896	1	0.5502629	0.8088104	0.3595508	0.2370537	1	0.4622716
829	0.5710199	0.6894847	2.2517634	2.2645179	3.498107	1.3213267	1.9980238	1.544575
830	0.0344993	0.0332391	0.0999094	0.049404	0.3996752	0.0317513	0.0457174	0.102554
831	0.0858248	1	0.2124152	0.386127	0.2599469	0.1187721	0.4064706	0.1600329
832	4.3758793	1.9509795	3.2514629	2.6798819	3.5028603	1.2817028	1.7364585	2.8003407
833	0.0237992	1	0.0524628	0.0438766	0.4358587	0.0151321	0.0298754	0.0660038

Table 4

SEQ ID	Patient ID							
NO	392	393	413	452	505	517	534	546
834	1	1	0.5247806	0.7000432	0.4021786	1.1010762	1	0.6578566
835	0.3601015	0.1851302	0.387554	1	1	0.4088187	0.2294768	0.4222485
836	1	1	0.5712896	1	0.3727924	1.1160933	1	0.7247633
837	0.9153446	0.8695499	0.4937681	1	0.3988232	1.1368903	0.8957561	0.7029232
838	1.786039	1.1219893	1.4943657	2.5885067	2.5040234	1.7712872	1.2503586	2.3012287
839	1.9784278	1.5940149	2.1628889	2.8450953	4.1575673	2.8732526	1	1.5486903
840	0.6791943	1.3718864	1.7375114	1	2.0997295	0.8938957	1.6146218	1.9457177
841	3.792604	1.9697755	1	3.6961331	2.6325441	2.1967021	1.5529915	1.4597031
842	1.8970392	1.5140431	1.866829	2.2057448	4.4499606	1.843222	1.8449958	1.9369909
843	0.5944497	0.5903213	0.8756184	0.3316879	0.6348505	0.5740603	0.2728692	0.4662267
844	3.1480103	1	3.2851663	1	4.0407451	1.5476101	2.5094948	4.4515989
845	1.4385529	1.653687	1	4.0347763	3.6951494	3.2928033	2.0324501	2.6268267
846	0.071704	1	0.691109	0.2230472	0.4057517	0.0747481	0.2159508	0.2492298
847	1.9898693	2.5520442	1	1.3225019	2.3515722	1.8128659	1	1.6602232
848	1.3666719	0.4133525	0.8365127	2.1737265	1.4810792	1.8875143	0.0649838	0.6281752
849	1	1	0.4960307	0.7666089	0.3802423	1.1493317	0.8678914	0.6883325
850	1	0.5957325	1.5541816	2.5022957	3.1684724	1	2.3105801	2.1172886
851	0.1832836	0.2813654	0.3899624	0.3458246	0.2769208	0.2008793	0.2828281	0.2808792
852	1.6494599	0.558665	2.2823809	1	2.4923668	1.295984	0.8265545	0.5887802
853	1	1.1577412	1	1.7610344	3.2744559	1.9678431	1.9802809	2.2878415
854	1	1.2878091	2.7144116	2.0577981	2.164842	1.7560325	2.0642547	2.3124567
855	0.4575338	1	0.390004	1	0.7281745	0.4919684	1	0.4394762
856	1.4010421	1.6509963	1.9944	1.3207669	1.8726783	1	2.1335679	1.4357119
857	0.4955911	1.3525364	0.5237443	0.4382067	0.3483314	2.3908893	0.6691675	0.4516692
858	0.0671074	1	0.8162593	0.272382	1.1154855	0.0741195	0.0641344	0.13732
859	0.3128753	0.8098184	0.7020183	0.6017198	0.4660411	0.3877074	0.4336001	0.538576
860	0.287334	0.1226584	0.2773006	1	1	0.3119091	0.0895228	0.3541525
861	2.0854238	1.9993939	2.0554307	1.6669223	1	1.5002515	2.5956646	2.4066989
862	2.0854238	1.9993939	2.0554307	1.6669223	1	1.5002515	2.5956646	2.4066989
863	1	1	0.5258683	0.764674	0.3551676	1	0.8790922	0.7209414
864	0.1901155	1	0.7317804	1.1536163	0.5331717	1.2746427	0.2136103	0.4258146
865	0.0957499	1	0.7779929	1	0.8419746	0.1522635	0.1808312	0.5983016
866	1.3129993	1.332959	2.7648494	2.8239778	2.8114002	1.6775665	2.6318421	4.9327309
867	1.2244756	0.4861126	1	1	4.4878351	1.386623	2.8254907	3.4185184
868	1	1	0.5087919	1	0.3521344	1.1127817	0.941906	0.6862216
869	1.1654538	1.2235962	2.09842	4.0000023	3.2422711	1.9005153	2.3603076	2.5574797
870	1.420207	1	4.4233133	2.119584	3.0578084	1	2.114016	3.420163
871	1.2030824	1.7407914	2.3802803	2.3342264	4.3879608	1.4203444	2.3874424	3.1089463
872	1.8769726	1.2463888	2.7328321	1.7911602	2.4790509	1.1138013	1.9430597	2.8834283
873	1.1985826	0.5006448	3.3655166	1.9450152	4.4079692	1.3954922	2.9852542	3.1105158
874	1.4893239	1.1452369	2.1006796	1.8853367	3.117803	1.3166123	2.5466831	2.7143928
875	2.2670407	1.697808	1.4954603	1.7246024	2.0793426	1.4250128	2.3208287	1.3408726
876	1.6789454	1	1	2.6018861	2.1866053	1.7651776	2.4520084	2.8199934
877	0.079803	0.1649789	0.2139746	0.4918122	0.1514502	0.1885912	0.2769398	0.033406
878	1.8237848	0.7244947	1	0.1804088	0.4631816	0.5571268	1	0.7111009
879	1	1	1	2.5686936	2.4013882	1.4324638	2.7516927	2.203143
880	0.8107348	1	0.5554786	0.5884366	0.4477528	1	1	0.6532763
881	0.1010919	1	0.2324318	0.3802708	0.2226382	0.1532141	0.397259	0.1150321
882	0.4932797	0.2832747	0.5347345	0.4447165	0.3887762	0.3532962	0.6131466	0.3781847

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
883	0.0723366	1	0.116062	0.185201	0.1865841	0.1067064	0.1657723	0.0665574
884	1.8598037	1.483287	5.2134628	2.5829894	4.0860534	1.6706597	3.4618135	5.4275103
885	1	1	2.4393426	1	3.187189	1	1.9679645	2.933957
886	1.792271	1.2891644	3.9169009	2.4251422	3.4251186	1.0626021	1.9020992	2.9966488
887	0.8493018	0.7762824	2.9032839	2.3042267	4.467957	1.5598292	2.4493793	1.8211485
888	1.8504429	1.4408378	1	2.3610072	2.6240088	1.4491214	2.2565259	4.229732
889	0.2725758	1	0.5910159	1	1	1.702526	0.6816796	0.5125398
890	1.2349981	1	2.3446171	3.1838103	3.3712019	1.6308825	2.895368	3.1514576
891	1	1	0.4898694	0.6572859	0.3790165	1.1587375	0.8506909	0.6758935
892	1	1	0.5582124	0.6090051	0.3865845	1.1270399	1	0.6810987
893	3.6436699	2.3984912	1.9363337	1	2.1428476	1.1371893	1	2.602344
894	1.2478606	2.2555134	1	2.7144532	1	1.7561551	2.7290025	3.3174071
895	5.6504788	1	1.8931983	0.8524279	1.2660403	1.2082425	1.3991957	1.9747787
896	1.6466515	0.69545	4.3269505	1.7751265	3.0142408	1.1316776	1	2.710174
897	0.8395974	1.505763	1	1.1548989	2.888882	1.2557928	2.1752918	2.8803729
898	1.1556429	1	1.6568433	1.8024083	2.4057874	1.2780846	1.9400009	1.6908713
899	1.2229133	0.7859079	2.3143915	2.2335246	3.1822346	1.5214165	2.1377072	2.4730311
900	0.7674737	1.3997241	1	1.3110032	3.5150666	1.293071	2.6188168	2.7068402
901	1.3161382	1	1	2.1199273	3.1788917	1.2040187	1	3.489509
902	0.6882955	1.4721677	2.7661562	1.4528348	3.7264072	1.363396	2.3548479	3.3298377
903	1	1	0.4976926	0.607349	0.348293	1.1023257	0.9617729	0.6600555
904	1.1395243	1.1781595	1.6080725	1.8029048	3.0609013	0.8838843	1.5991832	2.811244
905	0.8150063	0.8479939	1	0.2303083	0.6839803	0.2608633	1	0.5333144
906	1.5471472	1.2709818	3.6431713	1	3.7258088	1	2.3950127	3.036524
907	0.1151495	0.0609285	0.1400234	0.279018	2.6203537	0.8619145	0.3617742	0.1768107
908	0.2833973	0.4830162	0.5688132	0.7237981	0.8167312	0.5251225	0.380774	0.5812593
909	0.6126116	0.5156123	0.6739559	0.2414459	0.5777524	0.6926868	0.4320321	0.4825587
910	0.2663434	0.1421369	0.3510007	0.1380329	0.4997977	0.3774354	0.1767211	0.2402638
911	0.3048039	0.1986731	0.433749	0.1379692	1	0.5793189	0.1911806	0.2297333
912	0.6484067	0.8389224	1	0.3026451	0.8488753	0.3077007	1	0.6692129
913	1	1	1	0.5710649	0.3637543	1.1694005	0.8607132	0.7777075
914	1	0.8641683	0.5209472	1	0.4276505	1.1372429	1	0.7165925
915	0.057341	0.0658254	0.6088122	0.0769761	0.0470733	0.0496813	1	0.116196
916	1	1	1	0.6374195	1	0.3424645	1	0.8284894
917	0.7576375	0.8057822	2.7779729	2.3606665	4.2098732	1.5396685	2.3347717	1.9592056
918	1	0.8614874	0.5131098	0.7280418	0.3622322	1.1427469	0.9089083	0.6923131
919	1.3408119	1	2.3076387	3.2362414	3.2815575	1.2648689	1	3.3512091
920	3.6814049	2.3136522	1	2.8753476	4.0988066	2.1767484	1	5.386388
921	0.3175517	0.7203991	0.7762182	0.6190056	0.4347995	0.3475316	0.4392637	0.5072317
922	1.2014532	1.5327401	1	1.6829121	2.4441421	1.8418422	1.1326839	2.022356
923	2.9505675	1	1	3.1691625	2.2093015	1.7614445	1.7040749	2.079884
924	0.036904	0.0286885	0.5833073	0.0767104	0.0290993	0.0438094	0.4751364	0.0976475
925	1.270831	1	1	1.9693652	2.9140395	1.4890826	2.1286703	3.5686016
926	1	1	0.5283463	0.8190345	0.3780797	1	0.7527678	0.6645262
927	2.2782506	1.6875791	2.0095108	3.0037656	1	1	0.5667052	1.3412618
928	0.7122235	3.2077852	1	1	1	1.4309537	0.7534399	0.6446143
929	0.1560615	1	0.7193325	0.8725222	0.8399628	0.1928687	0.2470747	0.5903636
930	1	1	0.5627243	0.4350806	0.3640606	0.1074116	0.2445925	0.3171867
931	1.4493513	1.1498865	3.3113118	2.26006	3.5354211	1.2827223	1.6159311	4.0481667

Table 4

SEQ ID	Patient ID							
NO	392	393	413	452	505	517	534	546
932	11.829581	6.4598597	2.7760403	7.8230768	1	4.0752476	3.6255706	2.7601136
933	1.6553862	1.2544117	4.2782407	1	2.8301482	1.3934838	2.2924262	3.1269335
934	1	0.780101	1.9279988	2.0776594	2.5958242	1.2315539	1	1.7768908
935	1	1	1.6991406	1	2.4762286	1.6222816	1	1
936	0.2047249	1	0.3255575	1	1.5901358	0.367838	0.5171322	0.506695
937	0.1717955	0.2386393	0.472548	0.6222902	1	0.6936526	0.3031773	0.4174612
938	1	0.5457254	2.8961007	2.3504916	3.5438816	1.2760072	1.2702847	3.5018053
939	1	1	4.0862735	1.428853	2.8634482	0.7652655	1	2.8438564
940	1	1	0.5551449	0.5846567	0.3384661	1	0.8892669	0.6921368
941	1.6537032	1	1	1	3.1468412	0.0881324	0.1102023	1
942	0.0531413	1	0.1028306	0.3009803	0.348511	0.216019	0.0868362	0.0590726
943	0.117507	0.1195323	0.3062752	0.4927417	0.6732425	0.4665107	0.2667621	0.1835023
944	1.4863134	1	3.6418111	1	3.1011332	1.3720352	2.3553216	2.8307037
945	2.2792664	2.1125752	5.8004294	3.1787068	5.1181583	1.2674753	4.5232959	4.8070137
946	0.0538875	1	0.5285054	0.0682487	0.0437545	0.0397159	0.2195443	0.1050739
947	2.2607389	0.6123224	3.880885	1.9206397	3.4439304	1.890366	1.5668389	2.6889626
948	3.2927475	1.5433252	1	2.6045786	2.9063736	3.5011107	1	3.0920956
949	1.101366	1	2.2935913	2.0941482	2.9174596	1.3385745	1.222053	2.7397399
950	1.8398507	1.883235	1.5408695	3.2777379	2.3749218	2.182214	1.6267367	2.2647433
951	1	1	0.5292063	0.5284539	0.3020533	1.1609376	1	0.6989151
952	3.5748734	0.7904387	3.0760161	2.1802444	1.6614192	1.577514	1	2.9432071
953	1.9702942	2.192547	1.7776551	1.7380229	2.2354135	1.3399313	1.6706092	2.5073154
954	0.3005517	0.2686336	0.7950003	0.6359514	0.6170922	2.1293437	0.1110737	0.2011248
955	1	1	0.3052486	0.2861755	1	0.2523544	0.2507137	0.459614
956	5.2956515	2.4716173	1.2307342	1	1.4168889	3.3219406	2.6173531	1
957	1	0.5780446	1	2.2807764	3.099062	1.5447278	1	2.4624226
958	1.6380086	1.3515076	1	2.2992073	1.747341	1.5097416	1	2.3283026
959	1.9379978	1.1509648	1.5343255	2.2366545	1.7132759	1.1743755	2.3782881	2.5881331
960	1.1902504	1	1.3970321	1.8970326	1.424195	1.5924007	1.8077469	1.6447703
961	2.5729424	1.2409775	2.4295539	2.2311639	2.3076766	1	2.2382986	3.8485735
962	1.6585831	1.3996549	3.2429352	2.0375514	2.2608275	1.3261254	2.0387767	2.6808506
963	1.3810359	1	2.0355569	1.5801429	2.4974644	1.3693752	1.7968913	2.9395561
964	1	2.1966524	1	1.4697369	1.4280815	1.3301653	1	2.606307
965	0.7200725	1	1	1.5560584	1.9292578	1.3380303	1	2.0392684
966	1.2561983	1.3288436	3.593512	1	2.0037377	1.3171336	1.9814959	2.8052708
967	0.2876404	0.325803	0.7052272	0.6703892	1.6323515	0.7576611	0.5081235	0.4696932
968	1	1	1.5559996	1	2.5046542	1.235356	1	2.7880911
969	1	1	0.562995	0.4903492	0.3340044	1	1	0.6607917
970	1	0.6202761	2.1242136	2.3894562	2.7642811	1.605762	1.9711536	3.04042
971	2.573806	1	1	2.0771977	1.9591802	1.2286946	1.5830198	2.5053443
972	0.293695	1	0.4916444	0.4043827	0.5941258	0.1490286	0.2439008	0.2913773
973	0.7601374	1	1	0.3643959	0.7158694	0.4896074	1	0.6137089
974	1	0.8610027	0.6125718	0.4942974	0.4459769	1	1	0.6705239
975	1	1	1	0.3814678	1	0.6326414	1	0.6640917
976	1	0.5900245	0.6850152	0.7856513	0.6103015	0.5094615	1	0.566585
977	1.1629666	2.1080345	3.1695249	1.7573928	3.7938425	1.6593452	2.245005	6.5592367
978	1.4906474	0.7232284	3.4741976	1.4978264	3.4175505	0.8561115	3.0285971	3.0591389
979	2.5304289	1	1	3.4740159	2.0966934	1.9526037	1.4803592	2.1878615
980	2.8297076	3.4994093	4.2064925	2.3451848	1.5852104	0.8004357	1	2.3699168

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
981	0.3313061	0.2936322	0.5744559	1.6460004	0.7364806	0.9007948	0.5403342	0.4906465
982	1	0.8023791	1.3957661	1.504853	2.2916447	1.5355673	2.4174526	1.8902815
983	1	1	2.4108722	1	2.7371047	1.2457814	2.0125352	3.1842491
984	1.5184578	1	4.6758721	2.5556525	3.8875019	1	1	3.5680505
985	0.0551704	1	0.583009	0.0721513	0.0546387	0.0379988	0.2027584	0.138121
986	1.6873636	1.3419711	2.850401	1.9114393	2.4897812	1.4115825	2.6977177	2.3198867
987	0.1776748	0.2095946	0.447048	0.3099617	0.5346174	0.3671557	0.154412	0.2471457
988	1	1	0.553308	0.5279168	0.3893722	1	1	0.6634719
989	1.0692468	0.5870765	1.5962888	0.5621175	1	0.1722096	0.5121188	0.8560545
990	1	1.6487012	1.4455467	2.0359032	1.6240861	1	1.7912553	1.5402761
991	0.151752	0.7246925	0.4467773	1	1.6409335	1	0.3661243	0.6796112
992	1	1	0.5778742	0.5277465	0.3579568	1	1	1
993	0.1058262	1	1	1	1	0.2282075	0.2212762	0.310994
994	1	1	1	1.4989586	1	1.8455677	1	2.7048597
995	1	0.8898693	1	0.4694306	0.380498	1	1	0.7165702
996	1.2148728	1.3248272	2.2728673	1.5334514	3.2124912	1	1	2.2685234
997	4.0567376	1.3703728	1	11.203567	0.6270266	0.2311281	0.5208709	1
998	2.169984	0.6610039	1	2.9066375	1	1	2.1662858	1.3793153
999	0.6862759	1	0.6057456	0.6644401	0.7697104	0.659456	0.4994047	0.5739174
1000	1	1.6539344	1	0.5895764	1	0.6155853	1	1
1001	0.1821452	0.0699407	0.2862773	0.0693357	1	0.5042949	0.0760653	0.1016208
1002	0.6100772	0.2917329	0.5342789	0.2997684	0.7557038	0.5218646	0.3638981	0.3507933
1003	1	1	1.9764397	1	2.8229167	1.7276234	1	2.466168
1004	1	1.5882376	1.601034	1.6446353	1.603655	1	1.7596544	2.0833066
1005	1	0.8617743	0.5663291	0.7033236	0.4055578	1.1706423	0.8999305	0.6669239
1006	1.690286	1	3.3335675	0.3074597	1.3017962	0.4585844	1	1.8742197
1007	0.1583816	1	0.326869	0.313846	0.1744499	0.1288602	0.2481687	0.2466063
1008	1	0.8720626	0.5945059	0.6970753	0.3719199	1	1	0.6967495
1009	1	1	0.576247	0.5870694	0.3751999	1	1	0.6515859
1010	1.5561854	0.9156197	2.0757945	1.5575769	2.0417681	1.5033791	1.6394364	1.6650688
1011	0.8761544	0.868343	0.5028583	0.6694975	0.4186854	1.0994971	1	0.7372927
1012	2.3624799	2.4002125	3.2024769	1.7284743	2.8712443	1.3962281	1	3.4085581
1013	1.3704054	1.5254097	1.8710863	1	3.449905	2.2092355	1.4417784	2.3840387
1014	1	1	0.5389992	0.5780309	0.4558107	0.8998596	1	0.6785085
1015	1.3217124	1	2.9363983	2.3723051	3.3560844	1.5719563	2.1062194	2.6556606
1016	1	0.84006	0.6281986	0.589906	0.4205879	1	0.8189585	0.6817871
1017	1.3241742	1	2.0129204	1.4970383	2.3133524	1.6368847	1	2.0111339
1018	1.8035624	0.7955433	1	0.2214141	0.3408329	0.4952877	1	1
1019	0.8019051	1	2.5762853	0.9034187	1	0.5825768	0.3464862	1.4802301
1020	1.5183719	1.8972132	1	1.9426479	4.241428	2.3022663	0.150555	3.7549118
1021	1	1	2.4038088	4.1647067	3.3957084	1.1741839	1.5855657	2.7782848
1022	1.5776136	2.6486751	2.0705559	1	0.7006355	2.231857	2.1308981	1
1023	1	0.8833995	0.5420142	0.6649599	0.3811919	1.1413671	1	0.6726174
1024	0.4646048	1	0.8015769	0.6688065	0.5682942	0.5255978	0.6684082	0.5648018
1025	1.7153771	0.6491427	2.8084551	1.7288396	2.3596242	1.8621179	1	3.3371721
1026	1.6629765	1.3998231	3.9205743	1	2.6480686	1.3387585	1.8840015	2.7511578
1027	1.4212223	1	4.6533181	3.4433063	3.7266068	1.3955459	2.3673474	3.8385034
1028	1	0.7108429	1.4359706	3.3440665	1.8973866	2.3470492	3.6000678	3.7875352
1029	2.4332702	1.2759479	1.86042	2.0186328	1.852936	1.4681016	1	1.729539

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
1030	0.4384028	0.4227208	0.5922959	1	0.5551359	2.4106514	0.4616149	0.3059919
1031	1.5731978	1.787257	4.2338799	3.9728046	4.1498828	3.2734475	2.8083768	3.7457806
1032	0.2632418	0.3249126	0.2690231	0.3594737	0.5655237	0.5588285	0.1389572	0.2360209
1033	1.8591595	1.2952286	2.5960168	1	2.2018929	1.3916364	2.7899721	2.9091141
1034	1	1.2469626	2.9203785	2.3837117	2.7089804	1	1.4180714	4.0453316
1035	1	1.4515911	1.7856823	1	1	1.2579315	1.5824314	1.5402504
1036	0.6193266	0.13725	1.8412227	0.3955539	1	0.5522514	0.2099628	0.3762111
1037	0.8252308	0.7763418	1	0.4183744	0.8054929	0.2858075	1	0.7485615
1038	1	1.2045233	1	2.1368873	1.4886182	1	2.0100301	1
1039	3.1323038	1.7130624	1	3.050391	1	2.1634101	2.6679779	3.2011238
1040	1.6596343	1	2.4511936	2.8300842	1	1.4324562	2.0028519	2.5069073
1041	1	1	1	1.9586961	1	1	1.8502077	1
1042	1.2484411	1	2.1694096	2.3889328	2.8224588	1.5857163	1	2.7512397
1043	1	1	2.9057824	1	4.1865765	1.8156409	1	3.0420212
1044	1	0.8515849	1.6816945	1.9707886	2.7042441	1.1474843	2.1148752	2.5960575
1045	5.2189328	6.1858346	1.9666988	3.1184197	4.5718493	5.5151318	1	2.035675
1046	0.4194641	0.2135022	0.5238537	0.2671502	0.2859942	0.2456699	0.2887023	0.4137088
1047	0.0768573	0.0744913	0.6900876	0.0726062	0.0489319	0.0534835	1	0.1158517
1048	0.1309856	1	0.7287129	0.3937001	0.099376	0.0437941	0.0404345	0.1187173
1049	1.7067592	1	1	2.1523496	1.6629276	1.5143487	0.8308291	2.158934
1050	2.0405521	1	2.6867483	1	2.6466588	1.4493207	1	3.4188978
1051	0.0950217	1	0.1971022	0.4928753	0.683443	0.3353048	0.1660721	0.1850425
1052	1	0.8362019	0.5543456	0.4704464	0.4044596	1	0.8284261	0.6899511
1053	1	0.8456296	1	0.4029609	0.7410521	0.5106344	1.6587154	0.646825
1054	1	0.5258017	0.5655775	0.3243797	0.6053018	0.4952953	1	0.5444681
1055	1	1	0.6195011	0.4219161	0.7583634	0.6737525	1	0.6622928
1056	0.8008105	1	1	0.3345622	0.6983158	0.5122135	1	0.6908899
1057	1	1	1	0.4094737	0.7581156	0.583673	1	0.657211
1058	1	1	1	0.3454157	1	0.6843695	1	0.7290858
1059	1.2228576	1	2.9064559	3.0011482	3.0920406	0.8732137	1	3.9071466
1060	0.2862026	0.3645919	0.4653762	0.5414891	0.5131592	0.4131038	0.4174475	0.4167816
1061	2.107118	1.6941478	2.087989	2.9856756	1	1	0.567354	1.4653968
1062	2.9381315	1.7897895	1.594665	1.5543583	1.5971416	1	0.7059574	1.6464698
1063	1.7263005	1.4338932	1.8172117	3.3077253	8.1682707	1.1927578	1	1.7574953
1064	1	0.8267446	2.2210008	2.8871454	2.9891275	1.5136741	3.0249779	3.0204473
1065	2.2088278	1.3009465	2.4042696	3.6607763	6.120995	2.0065165	1.5505747	4.2150709
1066	1	0.8830929	0.5747417	0.7326717	0.4041238	1.1335864	1	0.7571781
1067	8.0060741	7.1268684	3.2670723	4.1344476	6.1605447	7.2834371	1	3.1138694
1068	2.7158149	1	6.6861766	2.548685	4.2671715	1.5028502	2.8714892	5.3857602
1069	0.7131508	0.7743039	0.5783844	0.5814463	0.4775131	1	0.5446325	0.5822774
1070	1.6683779	1	2.4223807	2.1387031	2.1360084	1.4173165	1.3305399	2.2508986
1071	1	0.7706733	1	0.3517166	0.7652421	0.3068728	1	0.6598717
1072	1.9526264	1.6147596	1.9801398	2.434163	1.9958087	1.6952512	1	2.4875419
1073	1.4900474	0.8652268	3.8953498	3.7581139	3.249082	1.165744	1	1.94163
1074	0.3763843	0.2633411	0.6499941	0.6023124	1	0.5303199	0.3154449	0.8148587
1075	0.0447268	1	0.0644198	0.0861443	0.1370881	0.0609652	0.0495569	0.0233787
1076	2.3400276	6.1211271	1	1.6163222	1	1	0.7768564	3.7878456
1077	1.2448797	1	4.1019297	3.8153007	2.5181561	2.4782245	3.127713	3.9096258
1078	1	0.7804175	1.6285664	4.2388935	2.6049566	1.1345523	1	2.6038104

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
1079	2.450936	1	2.438394	1	2.4259118	1.3730778	1	4.6446701
1080	1.9042402	1.8015122	4.1398425	3.0646765	3.7266068	1.2946271	1	4.7001803
1081	0.170298	0.4447813	0.414424	1	0.3122377	0.451371	0.5645123	0.0936469
1082	1.2137053	0.4778622	2.3375003	1.5117013	3.2658518	1.3100275	1.9528234	2.6122741
1083	1.7896119	1.4526496	3.1777854	1.8884379	6.507277	1.2531404	2.6879625	2.5208566
1084	1.9837654	1.8858565	2.6848584	2.7268955	1	1.9052604	1.9719837	3.3508446
1085	0.0897209	0.2120084	0.2353089	0.5152272	0.1700056	0.2126385	0.2649187	0.0394065
1086	3.6164207	0.6892572	1.8612878	0.8241403	1.7832907	1.282592	1.4092592	1.7504384
1087	0.1683062	0.0810501	0.3222212	0.2065677	0.3547078	0.4222413	0.4548117	0.2095185
1088	0.5478614	1.2973357	0.6468714	0.5866589	0.4237168	1.9956005	0.7760325	0.4863629
1089	0.3166712	0.2017102	0.5039899	0.2018427	0.7727698	0.4921601	0.2157891	0.3044577
1090	2.0087091	1.6771424	1.959587	1.6058511	3.0156774	1.605739	1	3.192609
1091	0.3637349	0.4244025	1	0.8211619	0.6374495	0.6111622	0.682972	0.7083974
1092	2.584588	1.8686236	2.6472122	2.7361307	2.0766129	1.0927973	1	1.5152997
1093	1.1504785	1.3665641	1.9704951	2.9577418	3.4715863	2.6941439	2.2919774	0.8056738
1094	0.7308325	1.3839949	3.0446521	3.0272488	3.583475	1	2.5510531	3.1762603
1095	0.8838948	0.8935889	0.5478728	0.767382	0.4061542	1.0531503	1	0.6807475
1096	1	1.3494697	1.8696916	3.854629	1.7554499	1.9801695	3.6299265	3.1428839
1097	1	0.8899682	0.5182654	0.5342306	0.3307333	1	1	0.6771861
1098	2.1957262	2.0034202	1.6710669	1.5315493	1.8849005	2.3363173	1	2.8946268
1099	2.2365302	1	4.7646947	3.1446438	3.6758296	2.0041018	2.5626399	4.9607968
1100	1	1	1.8630257	1	2.6218343	1.1760313	1	3.098523
1101	1.7937683	1.722134	1.9963048	2.5329013	2.5293202	1.1674764	1.5877698	3.0813738
1102	1.2995055	1.2810525	1	3.6501582	1.669389	2.2568471	1.9608777	1.7482199
1103	2.4731828	1	2.5587892	2.9768474	1.8136341	1.8184542	0.4975952	1.6857823
1104	1	2.1079455	1.5109549	1.651692	2.6905499	1.2239725	2.4286105	1.3398423
1105	0.457887	0.4323067	0.776177	1	0.6605846	0.6509701	0.734232	0.7203907
1106	1	0.7804571	2.710138	1.4067378	1.9587391	1.2337003	1.4634047	2.1769361
1107	1.4355712	1.5360838	1	1	1	2.1475191	4.3388939	3.1308528
1108	0.6583839	1.1185368	2.1691952	1.8997862	1	1.55917	1	1.6388496
1109	0.1529556	0.1331841	0.553863	1	0.352318	0.2315497	0.2378687	0.3813085
1110	0.8041035	0.6284968	2.4630222	2.8028113	3.6421682	1.4367106	1	3.8119054
1111	1.7578466	1.4702881	1.674669	1.6477411	1	1.5363262	2.4025694	2.5324614
1112	1.6821022	1	2.1605468	1.3623691	1.7327251	0.8060086	1	4.4145997
1113	1.4428063	1	4.2912063	3.1511551	4.2221313	1.4357218	2.7138989	4.2456654
1114	0.4388724	0.4824622	1	1	0.7072351	0.6785896	0.7532279	0.7227456
1115	1	1	2.6619011	0.310525	1.3817564	0.4629615	1	1.7846454
1116	2.1813156	0.7370879	2.8884776	3.4505688	3.011502	0.8617458	1	3.2161625
1117	1	0.875436	0.589302	0.7448387	0.3928157	1.1062276	1	0.7341068
1118	0.1743017	0.135776	0.4073626	0.4865684	1	0.2110364	0.2666208	0.4418504
1119	0.2238811	1	0.5671449	0.3491234	0.7618748	0.2175522	0.0864666	0.1823218
1120	1	1	3.4292773	1.8516223	3.1813618	1	1	3.3035332
1121	1.7856231	1.5682644	2.3018301	2.1083845	2.6373322	1.6598511	1.7472784	2.1500941
1122	1	1	2.007994	3.4211646	1.86136	0.8018385	1.7206357	2.2965967
1123	5.4954414	5.5088343	2.2364472	1.6315143	0.7158768	1.3298663	2.3337826	0.8021494
1124	1.6265674	1	4.0294441	2.7022355	2.9543628	1	1	2.2481609
1125	1	1.1565145	1.561063	1.7934674	1	1.2456511	1.5304818	1.3904591
1126	2.4410716	1.9133481	4.2494554	3.4142034	2.425151	2.6778236	3.7072263	3.8700073
1127	2.0396217	1.6544389	3.9457728	2.9354523	2.1816021	2.455603	2.0774874	2.8744602

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
1128	1.4458766	1.313708	3.5398992	3.1453995	3.4589919	1.8286342	1.9078724	2.202303
1129	0.599104	0.5587045	1	2.5114187	3.124942	1.2248311	1.2862294	2.4036944
1130	10.346323	6.8500833	2.6333953	5.7676747	1.3846427	3.1948205	1	3.3264818
1131	1	1.9597543	1.6155297	1.8086352	2.1993186	1.5434937	2.2144835	3.2750858
1132	1	1	0.4925961	0.5896083	0.3374553	1	0.8205513	0.7011634
1133	1.9669369	1	2.550167	2.4491948	1.9874881	1.2823544	1	2.1409791
1134	1	0.5613854	1	1	3.560014	1	1	1.9738509
1135	1.4439513	0.9180137	2.14723	2.5031571	2.5047443	1.4539814	2.5023876	2.8389643
1136	1.3873002	1.1312488	2.372625	2.4729815	2.6441452	1.4497576	2.5693184	2.786746
1137	1.9517744	1	2.3277078	2.1671039	2.660824	1.648	1	3.0565084
1138	1	1.207036	1.7848473	2.7443924	3.3297533	3.3026231	1	2.114092
1139	1.4742505	1.1519738	1.7415096	2.0100143	2.5560718	1.2462107	1	1.9624505
1140	1.4402706	1.9393063	3.8341049	1.3058495	1	1.7983624	0.1588615	2.8246476
1141	1	0.604715	3.1209606	2.6143597	3.867628	1.3264321	1	3.0066903
1142	1.3343291	0.6969833	1.7292631	1.7231492	2.2371379	1.3429133	1	2.5076555
1143	1	1	1	0.3739367	0.8095496	0.438094	1	0.7235151
1144	1	1	1.1365955	0.4216878	0.7480368	0.4822483	1	0.6406508
1145	1.3796161	1	1.8186046	1	2.5215315	1.3511232	1	3.1260873
1146	1.1872229	1.3657035	1.7629476	2.0307857	1	1.6642435	1	2.4602594
1147	1.2577289	0.4594718	3.9360428	1.7154251	3.1532567	1.3593409	2.2652582	2.691155
1148	0.8157247	1	2.1312787	2.5495787	2.5416971	1.1379712	2.3788922	2.9567663
1149	2.5418124	1.5658704	2.7477152	2.4373361	1	2.0511077	0.6717496	1.8592509
1150	0.282405	0.266754	0.6930622	0.1639004	0.2568589	0.185433	0.1737567	0.4436129
1151	0.8989645	0.6696797	2.1762934	2.4136927	2.7244621	1.4833103	1	2.4557487
1152	11.901713	8.2268467	2.0214953	4.4040674	4.5131523	3.7153973	1	1
1153	1	0.7158782	1.9813465	2.0309747	2.0238386	1.4067608	1	2.8254248
1154	1.7261062	0.7491965	1.9876718	1.7693191	2.4912071	1.3311311	1	1.9280201
1155	2.835163	3.5951697	3.2063367	2.7673716	1.6024735	0.766331	1	3.205565
1156	0.90842	1	0.5162023	0.7992676	0.4174348	1	0.7992505	0.7279487
1157	3.3336474	1.8910304	1.7273237	5.4015714	2.0746322	1.8156945	3.6668767	1.9827861
1158	1	0.7714647	0.6526324	0.4260169	0.5226658	0.6614414	1	0.6839769
1159	1	0.7974328	0.7241984	0.3677481	0.5887882	0.5053834	1	0.6022589
1160	0.4094694	1	0.5062978	2.2674996	1	1	1	0.5598273
1161	0.7810932	0.7045116	1	0.35804	1	0.2394454	1	0.6297203
1162	1.2475706	0.8037344	0.7308301	0.2518736	0.4718544	0.6262559	1	0.7134779
1163	1	1	1	0.4110813	0.5558986	0.6458188	1	0.5235707
1164	1	1	2.296291	2.1300709	3.5906848	1.2168358	2.6908971	3.5525522
1165	2.1364295	1	1.9124169	1.4823213	2.6046641	1.2323741	1	1.7288919
1166	2.0614764	0.81796	2.2702224	1	2.6614345	2.0330627	2.0681291	3.4814904
1167	2.148616	1	9.5113217	1	4.1218663	1.6197596	2.4587673	7.331983
1168	2.0846544	1	4.2605921	1.9512788	2.020138	1.4173011	1.7529687	3.2408614
1169	0.0139254	0.1430371	0.0640895	0.3335272	0.0663447	1	0.0262222	0.0274931
1170	0.4807244	1.3029943	0.6017101	0.8281872	0.4518925	1.8775566	1	0.4297189
1171	1	1	0.4840381	0.6716069	0.3821967	1	1	0.7162814
1172	0.0596476	0.001	0.0819305	0.2567091	0.5319777	0.0774158	1	0.2193428
1173	0.718973	0.494274	2.162516	1.5857716	3.1291568	1	1	2.5793928
1174	2.0104018	1.9998985	3.1126613	2.992639	5.2163557	1.8661347	1.6600089	3.8726019
1175	0.0318324	0.092753	0.264722	0.1470949	0.039078	0.0688225	0.1301146	0.0923217
1176	0.7867892	1	1	0.2895436	0.7217711	0.2646195	1	0.6194844

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
1177	0.7278841	1	1	0.3515598	0.7436491	0.2702998	1	0.579419
1178	0.7510753	1	2.1592715	0.4734552	0.6723775	0.3011005	0.5084794	0.7072048
1179	2.1097268	1.2145643	2.4825241	1.3499193	2.9203975	1	3.0303609	3.6210338
1180	1.4837866	1	2.7864375	2.2380314	2.2744211	1.2544053	1.8171818	3.3475676
1181	1.2766646	1.867021	2.1623029	1.903544	2.7444436	1.7261516	2.594586	2.6086611
1182	1.6797598	1.1198228	2.0877904	2.147758	2.0833259	1.2744281	2.5722821	3.2321342
1183	1.4234648	1	1.4606509	1.7407043	2.4302316	1	1	2.5909629
1184	1.9740621	1.7033677	3.6109534	3.3456052	4.1145563	1	1	3.7634746
1185	1.3493903	1.2011994	2.2250538	2.0995232	2.1773708	1.3773859	1	2.3322393
1186	1.4389578	1.2923696	2.3605039	2.3221332	2.7916667	1.4026137	1	2.1875508
1187	1.6802067	1.3979138	2.7423935	2.6982244	2.3764625	1.4492517	2.6809608	3.8708178
1188	0.7749417	1.1654574	2.271985	1.8684341	1.7952498	1.4213026	1.9650329	1.905599
1189	0.7884476	1	0.4904332	0.846638	0.4710338	1	1	1
1190	0.1887361	0.804051	0.429915	1.9527927	1.6598344	1.0736484	0.3112641	0.6364463
1191	2.1012615	1.6494134	2.0227529	2.7944332	1	1	0.6232531	1
1192	0.0959609	0.0975213	0.1463922	0.3805649	0.2518074	0.1895188	0.3760378	0.1104952
1193	1	1	0.42319	0.592491	0.3694051	1	1	0.7101556
1194	0.4373883	1	0.6874021	0.6178776	0.3232784	0.3889339	0.2609041	1
1195	1	1	2.4070383	2.6750618	3.3606216	1.43356	2.8229358	3.1484515
1196	0.6207052	0.5203806	0.4984868	0.5132995	0.6020503	0.57104	1	0.6635862
1197	0.5674342	0.2021059	1	0.4247864	1	0.5860187	0.2602415	0.3792291
1198	0.5877132	0.5549255	0.6032855	0.5263838	0.5732698	0.4969818	0.585858	0.5711898
1199	0.0876581	1	0.4727643	0.5397517	1	0.0234417	0.034294	0.0948713
1200	0.8628727	0.8593605	0.5675593	0.5683963	0.4997116	0.7364962	1	0.6440887
1201	1	1	2.7023795	3.1344016	3.0291959	1	1.4147085	2.8699079
1202	1.8899922	0.5797659	2.2232507	1.8346474	2.424053	1	1	1.9149171
1203	0.12243	0.3823887	0.4460985	1	0.3202956	0.3995356	1	0.1593019
1204	1.9786101	1.437692	5.064584	4.0800572	2.9162372	4.0319058	2.5079493	2.9197752
1205	1.343749	1.1459789	2.0662673	1.4340193	1.8397123	1.5050579	2.0285762	1.8023606
1206	1.0907021	1.274553	2.3009855	2.8570197	2.6510945	3.198615	1.8315381	2.2184264
1207	1.1610297	1	2.1934214	3.5283354	3.1981728	1.4172551	2.7335424	3.1535007
1208	2.7841346	2.0246497	1	2.1139694	2.244786	0.1164035	3.5075786	1
1209	1	1.5936488	2.6644864	1	2.1006801	1.3510389	1.4554454	2.3580049
1210	1.2543196	1.3666927	1.516986	2.5439293	3.5132923	2.5819872	2.4163299	1
1211	1.2310752	0.565293	4.0609446	3.583203	5.3709263	1.5733668	3.2926477	3.3594927
1212	1	0.8728144	0.5903919	0.5205676	0.3764296	1	1	0.6609334
1213	1	1.2746124	2.6316586	1.1869701	3.6783551	1.303619	2.4560593	3.2613327
1214	1.1531973	1	2.708048	2.8544027	3.1036223	0.8504006	1	3.3036513
1215	1	1	0.4955072	0.6005767	0.3868767	1	1	0.63895
1216	0.7084493	1.2293142	2.2889865	1.270705	3.3667989	1	2.5013852	3.0330362
1217	2.5562779	2.7784562	2.273397	1.8473883	1	1	1	2.2894851
1218	1.2498509	1	2.0397662	1.3300821	2.749865	2.0894438	1	1.6163215
1219	0.046059	0.1421072	0.0788984	0.3702595	0.2836295	0.2105534	0.0552329	0.0984366
1220	2.0457628	1	1	1.8154591	3.3788938	0.8310447	1.8784469	3.2135904
1221	1	1	0.3492997	2.9044444	2.028794	1	1	2.8865804
1222	0.0572153	0.0460402	0.4286429	0.0582527	0.0344236	0.0418853	0.1953626	0.1357031
1223	0.6357353	5.4245988	2.278353	2.0464081	1.2797513	3.4676423	0.5002129	2.7295444
1224	1	0.6040819	2.7306221	1.9036548	3.6429307	1.2335699	1	3.5822956
1225	1	2.4064548	2.9946955	1.5610323	2.5309758	1.5219224	1.2957853	3.5161941

Table 4

SEQ ID NO	Patient ID							
	392	393	413	452	505	517	534	546
1226	0.0263608	0.001	0.0761612	0.2416822	0.316853	0.1963872	0.0396495	0.0288324
1227	0.2890009	0.4578297	0.768479	0.3399836	0.4743628	0.2772219	0.5518626	0.1829592
1228	1.5828706	1	2.2193725	2.7786522	2.653419	1.689709	3.3404439	3.1528552
1229	1.6913513	1	2.7627612	1	1	1	1.6487293	3.4559736
1230	1.4988683	1.3374502	3.6381889	2.3493103	3.5556493	2.2120028	1.4232864	2.6673876
1231	1.2579352	2.5457723	1.9694342	1.6953377	1.4234668	1.1124751	1.8460867	1.8411388
1232	0.2353159	1	0.5742943	0.5472765	0.4479315	0.3604482	0.4512356	0.4570931
1233	1	1.3595008	2.9425004	1.6969644	1.978449	1.2110788	2.0291915	2.486538
1234	5.2601033	6.6909905	2.3440537	1.8022594	0.7434584	3.1187922	4.0967267	1
1235	2.0735412	1	3.1391511	3.6446693	1.7318628	1.7366306	0.5604788	1.7632289
1236	0.2607343	0.3904412	0.6243786	0.629861	1	0.2887741	0.2454817	0.6132975
1237	1	1	1	2.5996122	2.0909615	0.941078	1	2.2721486
1238	0.7413861	0.2592258	0.5863187	0.6831329	0.4174499	0.5099368	0.5138355	0.6086847
1239	1	0.7540933	2.5667943	2.5173118	3.1535424	1.4851424	1	2.9018979
1240	1.3241252	1	2.0523074	2.2626387	2.4309956	1.3954539	1	2.448981
1241	0.7863281	0.6201969	2.2529191	2.7206601	3.2764597	1.3246613	1	3.163323
1242	1.7969209	1.3136387	2.1780752	1	2.1972357	1.2732245	1	2.1463989
1243	1.6365104	1.2596449	1.9972585	1.9949406	2.1607424	1.33235	1	2.2705856
1244	1.963591	1.3201184	2.8450432	1.9905109	2.2037055	1.2646543	1	2.1583793
1245	1.3066707	1	2.5255897	1	3.0182929	1.6165323	1	2.7307542
1246	1.5626412	1.3534465	3.5023338	2.6505746	3.2718392	1.5839531	1	3.8144226
1247	1.161105	1.3861911	2.0914213	1.5827034	1	1.1405315	1	2.1225402
1248	1.5760155	1.2560934	2.6099087	2.2150026	2.0826402	1.4373546	1	2.3735078
1249	1	0.6040918	2.0468524	2.296464	3.3299127	1.4323565	1	1
1250	0.9120939	1	0.5282478	0.6999384	0.3604128	1	1	0.5639092
1251	0.767331	1	1	0.303652	0.8077926	0.2710817	1	0.5069841
1252	0.4560702	0.5292542	0.5254937	0.4015046	1	0.5340377	0.368391	0.3617448
1253	2.0055943	2.0258369	3.1469154	1.4741071	2.0835753	1	1	2.6918605
1254	2.3040682	1.4167988	1.9487558	1	2.1580626	1	1	3.0647183
1255	0.6926655	1.3234819	1.8392554	2.2946119	2.7138392	1.0833378	1	2.29062
1256	1	0.4877251	2.1239566	2.7087229	2.0550307	0.8806111	3.3782775	2.3279508
1257	0.2341436	0.6465113	0.463208	0.70183	0.7412178	0.558292	1	0.4154364
1258	2.6045283	2.0779115	2.222519	3.2798736	1.4412406	1.5888285	1	1
1259	0.6996764	0.5234968	0.5168862	0.4880598	0.5158404	0.4931719	0.4614557	0.6390914
1260	1	1	0.501013	0.6033453	0.4306671	1	1	0.6502839
1261	0.9090893	1	0.5086033	0.5965309	0.3617822	1.0995584	1	0.6749704
1262	1.5382133	1	1.6757239	2.0119919	1.7902167	1.8549658	2.2809255	2.3701599
1263	1.3929885	0.6303072	1.8130085	1.8924244	2.0578256	1.8533484	1	2.7824671
1264	1.385617	1	0.8062885	0.25652	0.4736011	0.565375	1	0.7050737
1265	0.6373394	1	0.5454424	0.7284632	0.6408478	0.6333544	1	0.6838403
1266	1.1981278	0.7957412	0.686687	0.2737779	0.456636	0.5603157	1	0.6252344
1267	0.7309519	0.3596752	1	2.1368873	2.6374321	0.7756602	1	1
1268	2.9041132	0.6701249	2.893428	2.988266	1.5222499	1.9579083	1	2.4796664
1269	3.4794013	1.6322992	3.8595577	3.6838571	5.448711	4.5611065	5.0805188	4.448599
1270	0.7693933	1	1.8279958	3.7561725	3.3690805	1.8029388	2.638292	2.9031741
1271	16.600193	9.7496843	4.5057226	7.8701187	1	4.3842054	4.8000904	4.467091
1272	0.7802473	0.8352226	0.7561607	0.3880412	0.5987152	0.5579853	1	0.6277997
1273	1.7752881	1.5142706	2.2529769	2.6881382	2.3788993	1.9181234	2.1930169	2.5005992
1274	0.1326285	1	0.2415722	0.1296852	0.3231448	0.4160168	0.3405944	0.0907015

Table 4

SEQ ID	Patient ID							
NO	392	393	413	452	505	517	534	546
1275	0.6941165	1	0.3319965	2.1264025	1	0.6240942	0.4364959	0.2949378
1276	0.5690947	1.2909451	1	0.4379281	0.4924426	1.4866373	0.7090089	0.5804962
1277	0.7025427	1.3378954	2.1218006	2.8958331	3.3815204	1.1438431	2.5973922	2.7129585
1278	2.0350979	1	3.2254207	2.3272534	2.3455494	1.3614183	1	2.8558076
1279	1.60793	1.4941589	3.0778494	1	3.5742738	1.5243448	1	4.0485213
1280	0.3760625	1	0.3662046	1	1	0.8619528	0.4224485	0.2240264
1281	1.8604483	2.0948872	2.9893928	0.6716138	2.1863993	1	1	1.9945969
1282	2.0319393	1.7879198	3.3579215	4.1449225	2.471656	2.9824657	3.7246228	3.7693073
1283	1	0.8500417	0.5017804	0.6914336	0.4005677	1	0.8135238	0.7272499
1284	1	1	2.330241	3.0513866	2.7390435	1.5574989	2.8216601	2.8558958
1285	1.1401294	1.3073965	1.8459072	1.6645903	1.8669519	1.3681181	1	1
1286	1.3161544	1	2.3185479	1	2.1375172	1.2918982	1	1
1287	3.0445378	1	1	2.9871747	2.399815	1.2116614	1	3.4546817
1288	0.7054095	1.6799123	2.3831881	2.4088948	1.4168601	0.6314993	1	2.2304191
1289	1.9568976	1	1	4.4821943	2.3407377	2.1659397	1	3.652806
1290	1.5647822	1.252077	3.4875854	3.1428315	2.7940201	1.3796626	1	3.4705086
1291	1.1925246	1	2.8149389	2.9989477	2.9437419	1	1	4.0550939
1292	0.0455355	0.0809512	0.1543351	0.2716921	0.0447633	0.0920572	0.2501091	0.1071634
1293	1	1	0.5138908	0.6727462	0.40535	1	1	0.6487638
1294	1.6152606	0.7485139	3.2425759	0.9460481	2.6244046	1	1.6489905	1.3606131
1295	1	1	0.4983424	0.6785148	0.4003396	1	0.8742508	0.6699794
1296	0.1764069	1	0.3302505	0.5137508	1.3589331	0.2769306	0.2754833	0.4257322
1297	0.5145712	0.1790363	0.7412588	1	1.2410912	0.4242114	0.1262775	0.4563663
1298	1	1.9243882	2.4868138	1.4690441	2.714395	0.7545565	1.6682584	1.6455318
1299	1	2.7512317	0.3031761	1	0.6447079	2.7821996	1	1
1300	0.6427696	0.844947	1	0.4650934	0.6199714	1	1	0.7368754
1301	1	1.1957684	2.8163838	1	3.462211	1.139466	1	1.7521973
1302	1	7.4440352	1	2.5429407	0.1884052	1	1	1
1303	0.2018878	1	0.363932	0.3563224	0.2938868	0.3504522	0.3658755	0.5794517

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
1	3.0227714		2.1325895	2.4193425				1
2	1.1420539		0.4234378	0.6369584				0.6101431
3	3.3396938		1	1.7731123				1
4	0.7037364		0.3062226	0.1378194				0.3583218
5	0.5675847		0.8255816	0.5523191				0.380477
6	0.6217617		1	0.6081652				0.4779032
7	2.0221867		1	1				2.9054189
8	2.2439893		5.668234	4.2907423				1
9	0.5089518		1	0.7079489				0.5356492
10	0.289236		0.4625569	1				0.1376797
11	0.3943149		0.174106	0.5714198				1
12	1.274314		1	1.7664955				1
13	0.323844		0.179401	1				0.6267236
14	2.9293078		1	1				1
15	0.3356003		0.1954688	1				0.2402416
16	2.5876474		1.7496184	2.8249407				3.0280874
17	1.7005707		1	1				1
18	1.4851995		3.12969	2.1237625				1
19	0.3467773		0.1824525	1				1
20	5.2618963		1	1				1
21	0.3696512		2.2453032	1				1
22	2.3899812		2.3942221	1				1.7921614
23	2.7148872		2.4261572	1				1
24	2.3188716		1.2859785	1				2.597565
25	0.6083493		0.6017115	0.506961				0.4305362
26	2.9646286		1.4292156	3.7626717				1
27	0.6228831		0.8514508	0.5773087				0.41871
28	1.4147138		0.3618134	0.6768505				1
29	1.8397376		2.0064229	2.3606947				4.4422274
30	6.0024463		3.1467064	1				5.0531366
31	3.1453027		2.470817	6.7701719				3.1328726
32	0.6358499		0.6386399	1				1.29421
33	1.4362954		3.0922288	1				1.3250643
34	2.0827431		1.2679762	1				1.6447695
35	2.6943824		1	1				1.9494872
36	1.8746203		1	1				1.5647616
37	2.3991011		1.3002555	1				1.8569642
38	2.6218543		1.662885	1				2.6150981
39	0.3338104		0.2518389	1				0.136367
40	2.8165721		1.4508996	2.023825				2.2143928
41	1		0.4316427	2.9332133				0.2325446
42	3.8487867		3.0567018	1				1
43	0.5786429		1	0.5752042				0.4834042
44	0.650666		1	1				1
45	1.8729196		0.8094977	2.4554112				2.0355442
46	1.7464893		1.8383967	1				1
47	2.144265		1	3.7950345				2.3679103
48	0.5499985		1	0.6984646				0.5455243
49	1.4624667		1	1				1

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
50	0.1732253		0.8935786	1				1
51	3.1714889		1	4.0245186				1
52	0.5591035		1	0.659709				0.4830261
53	1000		1000	1				1
54	3.406949		1.8471599	1				1
55	0.4901922		0.0393104	1				1
56	2.0522644		1	1.7254737				2.0233503
57	0.3853956		1.3418544	0.8502073				0.666336
58	0.6217468		1	1				0.4598705
59	1.9706759		2.2379739	1.6575719				2.4834598
60	3.8685785		1	1				1
61	2.5293041		2.8556378	2.2839812				2.6106926
62	1.9122509		1	1				1.6343957
63	2.1381084		1.2365741	1.9174193				1.9712211
64	1.9335429		1	1.9026692				2.2156344
65	3.6687661		2.5039279	2.1100952				2.2394273
66	0.6043612		0.8867595	0.6712444				0.3954237
67	2.4947779		1.3056842	2.272436				2.17162
68	2.7754139		6.6562593	2.4720552				1
69	2.3939767		1.1721109	1.7857369				1.8669653
70	3.1568957		1	1				1
71	3.7703247		1	0.5487404				1
72	0.2868595		0.1942216	0.7774494				1
73	4.3107875		1.4367494	1				1
74	2.3713925		1.8591429	1				2.5302891
75	1		1.8662279	1				1
76	1.9024997		1	1.9025172				1
77	0.6232916		1.1263261	0.6491584				0.6519571
78	0.5889584		0.8221698	0.5870763				0.3961988
79	0.5715431		0.8007197	0.5822843				0.4690542
80	3.904189		1.3711261	2.5555765				2.4015104
81	6.6156229		3.320566	3.848362				4.7776165
82	0.8994048		0.4414844	2.1553333				1
83	2.287925		1	1				2.709314
84	2.8537199		2.0383605	2.3193314				1
85	0.2396933		0.0692054	0.5435536				0.4566766
86	2.4067653		1	2.5486513				1.9736823
87	4.3638654		1.8553116	1				3.9319491
88	2.3319795		1.5638565	1.9430635				1.9418714
89	1.7550596		1.2950034	1.8482566				2.3162801
90	2.4621677		1	1.9793829				1.6753102
91	1.9291166		1.6333855	1				1
92	4.4696126		2.5328174	2.8741245				3.2717684
93	0.6311712		1	0.5860318				0.4339877
94	1.9151992		1	1				1
95	2.7916039		4.0021245	1				1
96	2.0312323		1.4906227	1.8570439				1.7905779
97	1		4.6163211	1.8917922				1
98	2.2565105		3.1322197	2.6934763				1

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
99	0.5859061		1	1				0.5446822
100	0.7169186		0.8008276	0.6204439				0.5413803
101	4.5326941		2.1245069	2.5984977				1
102	1.817391		2.1129229	1.9272419				1
103	0.282463		0.3904623	0.4616613				0.5081924
104	0.5832028		1	0.6324946				0.4402709
105	3.2264457		1	2.1821796				1
106	2.6624332		1	1.8952532				1.9537279
107	0.2864734		0.6535554	2.193362				1
108	1.8570416		1	1				2.1813896
109	2.4840613		1.4953996	1.7804881				1
110	1.8653296		1.5794314	1.2661319				3.8722311
111	2.4203411		1	1				2.0127871
112	0.4879197		0.2083159	1.504641				4.0469078
113	0.6197268		0.9032044	0.5704439				0.6104683
114	0.6041607		0.775074	0.5323404				0.4613577
115	2.1698273		1.1317323	2.158653				5.2895268
116	0.5780785		1	0.5779996				0.4602856
117	0.5808115		1	0.6987104				1
118	0.4474076		0.3493052	0.7336947				1
119	0.5225276		0.7209606	0.6504343				0.3104849
120	0.5555759		0.6392629	0.6877722				0.3019031
121	2.2477397		2.9573068	1.2510847				1
122	0.2985119		0.4310144	0.4282131				1
123	1		3.1488187	2.2910823				2.6749284
124	3.0320695		4.2457751	6.4740037				1
125	2.2865585		2.116033	2.5574967				1.5908399
126	0.2194261		0.485213	2.0928581				0.4864299
127	0.578888		0.798503	0.5682264				0.490685
128	0.6117655		1	0.6642025				0.4320282
129	3.2824125		3.0561778	1				1
130	1		0.5088802	1				1
131	2.9332216		1.8409029	1				1
132	6.2918829		1.6360239	1.7661027				1
133	2.0240656		1.2802153	2.3133265				1.8713415
134	0.6211973		0.6777175	0.5239394				0.44088
135	0.5474438		1	0.7358019				0.4998394
136	0.2554822		0.1429803	0.5828826				0.4378198
137	4.0370953		1	1				1
138	0.7339552		0.0299838	0.3544202				1.0969011
139	1.4362212		2.0907671	2.2231735				3.4283035
140	1.5781805		2.3449002	1				1
141	2.960544		1.215809	1.8993324				2.1939848
142	2.4305156		1.1933923	1.9565728				1.7956223
143	2.2728416		1.4200614	1				1.2895854
144	2.4194499		1	1.5108746				1
145	3.1014042		2.0796442	2.2317111				1
146	1.8492436		1.3105801	1.9519245				1.9988394
147	2.1017626		1.5603794	1.3697847				1.9405841

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
148	2.4984837		1.3731752	1.7167297				2.5972235
149	0.5308825		0.8298014	0.5063146				0.4143831
150	0.6715793		0.4445829	0.7433544				0.5712187
151	1.7850111		2.2905428	1.7560367				2.7633071
152	2.0711131		1	1.7571159				2.0885265
153	1.4737774		8.0650902	1				1
154	1.7000137		1	3.0020779				2.4802645
155	2.400371		1.4068143	2.6269561				1
156	2.4374966		1.6240103	1				2.1592795
157	3.315899		1	1.6885048				2.1813896
158	2.700487		6.3666913	2.6258945				1.5940163
159	0.7386414		0.7733591	0.6119242				0.4891121
160	0.5884312		0.8395723	0.6593257				0.4382155
161	0.5945284		1	0.7607761				0.5253628
162	0.7492986		1	0.8674273				0.2664136
163	1.5336135		1.6062448	1				1
164	2.5527795		1	2.3030407				2.4494409
165	0.216344		0.7418806	1				0.2428451
166	3.4916047		1	3.8146801				1.9625573
167	0.434827		0.209014	0.6108313				0.3157908
168	0.4335941		0.0653526	0.6776205				3.3172211
169	1.6148307		1.1871928	1.4568323				1.4479456
170	3.4314048		1	1				2.3077584
171	3.0122108		1.831634	2.5554852				1
172	2.5958686		0.6688879	2.4541466				1.567959
173	2.3662755		1.6625748	1.526752				1.9576477
174	0.8397619		0.7119534	1.7109358				1.2751462
175	2.3434016		1.5500941	1.536334				2.2511638
176	1.9341073		1.5812528	1				1
177	0.2371162		0.3185519	0.3446156				0.2709686
178	1.7079008		2.2033401	1				1
179	2.90581		1.3394748	2.1154658				2.2990316
180	1.7124904		1	1.4397252				1.6140359
181	1.3557838		1.9891381	2.5870241				1
182	1.8056198		1.3396157	1				1.8867987
183	2.4329515		2.5569416	2.8586073				2.5360536
184	2.5301953		1.2857188	1.4861216				3.6497857
185	1.488289		1.5074132	2.4207354				1
186	1.7952523		1.672496	1.345952				1.9579386
187	1.7613277		1	1.6971645				1.907242
188	2.9758428		1.8324248	1.9780683				2.1966678
189	3.0400605		2.4930019	2.3530788				2.6179566
190	0.5258398		1	0.527929				0.6447559
191	1.6693048		1.6401787	1.9502735				1
192	0.5636932		0.9271636	0.563994				0.4582042
193	3.0722102		1.3675286	1.3918156				2.9108761
194	0.3031163		0.2460286	1				0.341633
195	0.6246506		1	0.6251977				0.4527915
196	2.2090917		2.4121712	1.8793079				1.6280999

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
197	0.6336368		1.0471891	0.6008799				0.5253209
198	3.1632677		3.7426435	1.4067994				1
199	2.4770432		1	1				1.8674947
200	2.6557047		8.5354637	1				1
201	1.9132089		1	3.680904				2.2383492
202	1.9965872		1	1				1
203	3.4948353		2.5027326	1				1
204	4.120689		1	1				1
205	0.746469		2.393772	1.8322433				1
206	2.2871304		1	2.127682				1
207	2.3090908		1.2908396	1.945655				1.9928419
208	1		28.30337	1				1
209	0.3463762		1.3638456	0.531691				0.6957649
210	0.5912681		1	0.6590582				0.4711851
211	3.8259053		1.8804024	3.9059822				1
212	2.0442585		0.5784783	1.4714675				1
213	0.5192227		0.8398254	0.5391341				0.4013615
214	2.7334834		1.6678951	1.5845945				2.635767
215	1.8098233		2.2610815	2.2543752				1
216	0.5290333		1	0.5000593				0.5252581
217	3.7944092		0.9307363	1				2.9350902
218	1.8879956		2.3583021	1				1
219	1.7878703		2.4480817	1				1
220	2.6300607		1.4870166	1				1
221	0.5730433		0.861225	0.5275861				0.4113379
222	0.5686913		0.8669888	0.5966119				0.3882579
223	0.5205224		0.7642738	0.5316198				0.3389736
224	0.5135711		0.7744679	0.5571624				1
225	0.6240491		1	0.5346938				0.5319002
226	1		2.1385764	1				1
227	1.89817		1.3853412	1				1
228	1.5380769		1.5646252	1.5514396				1
229	4.9083311		1.2250503	0.5958361				1
230	1.6281317		1.398624	2.3335665				1
231	0.5499837		1	0.5871004				0.507732
232	1		1	1				1
233	1		1	1				1
234	1000		1	1				1
235	0.1573546		0.2184552	0.4839668				0.6340083
236	2.5399538		1.3785701	1.9021628				2.4019483
237	1.7511904		1	1.374711				1
238	0.1840755		0.220024	0.4900486				0.0904023
239	0.5521151		0.8246573	0.5827258				0.4447452
240	0.4460634		0.406573	0.3519943				0.5981919
241	0.5598462		0.4848091	0.4672105				0.6941151
242	2.2350625		2.578393	2.1307263				5.4063964
243	2.0915214		1.1608142	1.8753142				2.4195962
244	3.1960115		1.2494366	1.6309833				1.8895955
245	1.6753649		0.8168799	2.5425773				1.4913318

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
246	1		1	1				1
247	3.4774571		1	1.7643154				1.6144315
248	2.1907926		1.6632885	1.9757719				1
249	0.4807604		0.5929961	0.5982948				0.723211
250	2.1910451		1	1				2.4518725
251	1.5397404		2.4629649	1.2948007				1
252	10.025424		1	1				1
253	2.9242131		0.5743627	1.6360603				1
254	0.6648434		0.8202479	0.5481723				0.4133623
255	1		1	1				1
256	1		9.3847859	1				1
257	0.5469685		0.8582725	0.5686785				0.3854912
258	2.1833066		1.3015086	1.8764465				1
259	2.4775185		1.4753002	1.9625357				2.2628295
260	0.1726534		0.2175099	0.3212561				1
261	1.9860043		1.6009936	1.9941268				2.3159407
262	1		6.6742034	2.2207561				1
263	5.2409978		0.6110721	2.9439652				1
264	3.5870216		1	2.9880225				1
265	0.6823033		0.8796529	0.5416096				1
266	0.0458072		0.014865	0.026302				1
267	2.8336161		1	1.7749615				2.0002052
268	2.566036		1.4866445	2.7078636				2.5562311
269	4.151799		1.4502386	2.0961108				1
270	2.3092765		1.2038212	1.7362029				2.0798976
271	0.5321673		0.8544383	0.5061641				0.4226259
272	0.6262177		1	0.6191969				1
273	1.2848598		0.7885977	2.2334544				3.2664948
274	1		0.2856205	0.5424975				1
275	0.5971797		1	0.577374				0.48467
276	1		1	8.369962				1
277	6.8532292		1	1				1
278	2.6629679		2.3337255	2.060521				1
279	2.0722939		1.6520967	2.3919779				2.3188625
280	1.5680357		0.1105969	1				1
281	1		0.8727362	0.6018564				0.4197217
282	1.3196163		1.3379667	1.7558642				2.1068992
283	1		1	2.6871983				0.588719
284	2.148164		1.5349047	2.6314046				2.1853705
285	0.2319028		0.197934	0.789715				0.1024021
286	1.0811558		1.614245	1.800672				2.0524595
287	2.3035505		0.645275	3.6113512				1
288	2.9440198		1.3775686	2.9487016				1
289	2.2314309		1	2.1167187				1.8256094
290	2.0264273		1	1.9349632				1.8201858
291	1.8926595		1	1.7117552				1.7577642
292	2.0323983		1	1				1
293	1		0.7096237	1				0.6267136
294	2.8462042		0.4712938	1				1

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
295	3.6559998		1	1				2.9810323
296	0.6288467		1	0.6239806				0.4536856
297	0.580559		1	1	1	0.53067	0.8063207	0.3992892
298	1.5880578		1	1	2.3301342	2.8295486	1.4369235	1.8269176
299	0.5283203		1	0.623056	1	0.59282	0.7276859	0.3433874
300	1.1869625		1	1	0.8040121	2.0466557	1.8417565	1.6467228
301	1		1	1	1.4271644	5.3504393	6.3638147	1
302	2.2156048		1	1	1.4909722	4.1373737	1.6715152	1
303	0.2742715		1	1	1	0.3805516	0.3855942	1
304	0.690116		0.5201083	1	1	4.1512592	2.4541085	1.9668063
305	1		1	1	0.6698285	8.4573392	2.5575293	1
306	0.6295373		0.346112	0.4149342	0.1606429	0.424532	0.0777455	0.0927229
307	1.8443347		1	1	2.6915221	2.9723364	1.8364633	1
308	1		1	1	0.2119874	0.091272	0.5131799	0.3876828
309	0.4104157		0.222128	0.3518314	0.2226691	0.0506181	0.8440078	0.2423595
310	1		0.0981741	1	1	2.6583891	0.7778225	1
311	1		1	1	1	1	0.259787	0.7261345
312	1.8354599		0.7948782	2.4091498	0.8500952	1	4.0567706	2.8116723
313	1.3717584		1	1	1	1	2.7811113	1
314	1		0.261599	1	0.3438118	1	0.5200821	1
315	0.1722821		0.1683992	0.4592882	0.0751915	0.4314378	0.5260246	0.0488609
316	1.4067525		1	2.9238547	1.1846143	1	1.3441737	1.4214361
317	1.3582791		1.4890537	1	2.7260178	2.6968539	1.8858377	1.7000303
318	13.402971		1	1	1	1	1	1
319	1.6197545		1	1.7328778	0.863139	1	2.9766185	2.0243868
320	0.5906071		0.2266141	1	0.0104955	0.0218735	1	0.1408256
321	0.5917657		1	1	0.5633027	0.5461429	0.4965665	0.4859574
322	2.5138122		1.2802889	1	1	3.7598561	1.2899014	1.8325514
323	0.5425645		1	1	1.6229955	0.4924703	0.6957718	0.5158241
324	0.8282135		0.2486131	1	0.3573488	0.5064004	1	0.174468
325	1		1	1	1	0.5167396	0.6898859	1
326	0.6220662		1	1	1.6262058	0.6602372	0.670506	0.4454269
327	1		1	1	3.9686365	2.7710006	6.02552	1
328	0.4273187		1	0.6461129	1	1	1	1
329	0.5919439		0.6350632	0.6751755	0.538854	0.1758757	0.7752818	0.4565052
330	1.4261507		1	0.8196812	0.4331919	1.2123035	2.2017884	1.6445642
331	3.0104953		2.7606415	1	1	1	1	1
332	2.9263074		1	1	3.0131541	3.6463974	2.0521691	1
333	2.3198891		1	1	1	1000	4.013748	1
334	0.573823		1	1	1.664414	0.4778889	0.7686195	0.4067422
335	0.6983596		1.2147319	0.6154702	1.3494567	0.3584494	1.0830457	0.5737774
336	0.5592224		1	1	1	1000	0.8146203	3.9431306
337	0.4782651		1	1	1	0.7769536	0.6938522	1
338	1		0.1403281	1	1	2.5656523	0.8267593	1
339	2.3893425		1	1	1.6416295	1.6328446	1.6137565	1.8782792
340	1		1	1	1	5.566716	1	1
341	1.6008539		1	1	1.5573131	1.9629753	1.2687994	6.5890879
342	2.1195642		2.2370752	1	1	2.0683724	1.7111784	1.8875647
343	2.2872863		1	1	0.5826844	1	1.6995758	1

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
344	0.783951		0.4814336	0.6834517	0.128028	0.2954009	1	0.5788071
345	0.4518561		0.4828576	1	1	0.4666902	1	1
346	0.4765495		1	0.5692718	1	1	0.7672221	0.2968849
347	0.496891		1	0.6077463	1.9844564	0.431312	0.7111008	0.3916945
348	1.993327		0.9075084	2.2804108	0.7270463	1.6952191	2.7875336	1.4471237
349	2.5205036		1	3.5779095	1	1	2.5922099	2.028908
350	1		1	1	0.3838128	0.2249965	0.6268058	0.7289607
351	2.2927077		2.255474	1.5630079	1	2.5793682	1	2.1939239
352	2.1415023		1	1	1	1	1	1
353	4.3473635		3.8224176	1	1	2.5020536	1.7143966	1.2733383
354	1.6190119		1	1	0.356299	0.0884272	1	1
355	1		0.2318928	1	0.194685	0.5333493	0.3174186	0.4724017
356	1		1	1	1000	1000	1	1
357	0.3850614		0.4794111	1	0.3091116	1	0.5300191	0.2266827
358	2.2115722		1	1	2.5169784	0.8931682	0.3910567	6.4661793
359	0.5361182		1	0.628137	1.859678	0.5158071	0.7109878	0.4376913
360	0.4854466		0.5406702	0.784394	0.265383	0.1763741	0.4905535	0.2682828
361	1.5880801		0.5175502	0.6693085	0.1672364	0.2323688	0.4732344	1
362	3.6297468		1	1	1	1	1	1
363	1.8845571		1	1	1.7754578	1	1	1
364	1.8906246		1.6391531	2.6612858	2.0380968	2.8848629	3.0437213	2.3215188
365	1		1	1	1	1000	1	1
366	2.4904333		1	1	2.6882219	3.6648622	1.3644711	2.0657634
367	1.3246886		0.4466549	1	0.3928991	0.4081842	0.5056425	1
368	1.2334307		1	1	2.7060884	5.480612	2.7178336	1
369	1.9664575		2.4875746	1.5392122	1.388417	2.5364765	0.4583148	3.5317087
370	0.6015539		1	1	0.7233191	0.4690294	1.610623	0.6170502
371	1		0.5691254	1	2.5950492	1.9692256	2.2441334	1
372	0.1216699		0.1455793	1	0.1686159	0.234922	0.060624	0.0602449
373	2.3832082		1.761862	2.935261	1.919805	1.6422256	2.353666	2.4136111
374	1.6312509		0.6616236	1.6775675	1.5857912	1	2.0899692	2.9998144
375	1		0.7558735	1	0.6995073	1.3457595	1.6078282	1
376	1.7154313		0.8524443	2.9891471	0.6109587	1	2.2888075	1.9319036
377	1		0.5742406	1	0.2424553	0.6255767	1.0901879	0.2685243
378	0.7073309		0.2821753	1	0.5970385	1	0.7021236	0.5249615
379	0.4586218		1	0.5162501	1.4245014	0.5940987	0.8155943	0.4940467
380	1		1	1	1	0.5894198	2.6859619	1
381	0.5523082		1	0.7495043	1.7959687	0.5519788	0.7288151	0.3877303
382	0.7152848		1	1	1	1	1.6692285	1
383	1		1	1	0.6733946	1	1	0.4990599
384	2.1490032		1.7330166	1	1	3.0179592	2.9538227	1.6478902
385	4.9147105		2.9868402	1	2.1528924	4.3348309	1.6078282	3.3423313
386	0.4831221		1	0.6158467	1	0.6399228	0.6645071	0.5310317
387	0.5192227		0.8617163	0.4204452	1.9005596	0.5053508	0.7458096	0.3985201
388	1		0.5218135	1	0.6435667	0.372486	0.9136937	0.4557339
389	1.4696111		2.8972243	1	0.5921103	2.1692123	2.5499072	1.6682732
390	0.3514783		0.2798662	0.5136496	0.2263024	0.5585592	0.3194936	0.4313774
391	0.6573054		1	1	0.4484976	0.3355885	1	1
392	2.3997398		1.190857	2.0267516	1	1.6906692	2.3061407	2.0414855

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
393	0.4799361		0.460202	1	0.6948234	0.324052	0.5755683	0.7352196
394	0.5142841		1	0.4985213	1	0.4991221	0.6834918	0.4165188
395	1.9797734		1	2.2846382	2.052973	2.6609887	1.7137332	1.2072111
396	1		0.3370315	1	1	1	1	0.2110269
397	1.8404134		1	1	3.0269143	4.2228949	2.4909064	3.4008653
398	1.7916504		1.4994248	1.3660674	1.7567085	1.8441039	1.6418454	1.4139598
399	0.5018148		1	1	0.6696134	0.2369248	0.5403513	0.8020225
400	1		1	1	1	0.3194431	1	0.3204916
401	0.7966059		0.1456205	0.4723761	0.1480509	0.521353	1	0.2478165
402	1		1	1	1	0.001	1	1
403	1		0.3657315	1	1	0.001	0.438582	1
404	0.345537		0.3845855	1	0.5163676	1	0.6947697	0.3844767
405	0.4289897		0.1954881	0.5979044	0.1936387	0.225627	0.5527867	0.1163103
406	3.7228614		2.6049192	1.4046154	3.3598285	5.2347519	5.3538707	3.4158574
407	0.3468515		0.1881621	1	0.298414	0.5376062	1	0.5405361
408	2.113868		1	1.7761523	1.2920543	1	1.6854608	1.7273764
409	1		1	1	0.202697	0.001	0.3634195	0.1861943
410	5.0742931		3.1637965	3.2055014	2.4227665	5.5854545	3.7850847	3.4909942
411	0.4868651		0.1627744	0.4503211	0.2561987	0.1480898	0.6137071	0.2186501
412	0.6643012		0.8666937	0.4751456	1.5805733	0.4693109	0.9174906	0.5103417
413	1		1	1	2.8436022	1.1951169	1	1.8715631
414	1		0.0490545	0.0984559	0.0273167	0.1197429	0.0252094	0.078508
415	0.0269065		0.0107262	1	0.0216033	0.1119969	0.0100076	0.016254
416	2.4612617		1.9364137	1.9768101	1.2434092	1.8095233	2.2726317	1.9125958
417	1.5367995		1	1	3.061816	2.4730392	2.2883276	1.8119236
418	1		1	1	1000	1000	1	1
419	2.4819002		2.0196993	1	1	1.5819285	1.5129611	1.9962646
420	2.8169731		1	1	0.4122834	0.2109693	0.2207872	0.6053531
421	1		1	1	1	1	1	1
422	1		1	1	1	1	0.3535531	1
423	2.0759478		1.7084016	1	1.433457	1.6441306	2.0489932	1.5223551
424	0.7425032		0.3701162	1	0.4976213	0.413177	0.6153444	0.4278304
425	1		1	1	1.4097287	1	2.0411453	1
426	1		1	1	1	0.1256524	0.8548482	0.3396437
427	1.6990334		1.7910357	2.9764512	1.9755614	1	3.6124861	3.7803659
428	0.4796984		1	0.6651729	1.4740591	0.4651681	0.7584425	0.4149705
429	1		1.659881	1.5542395	1	1.4374332	1.5471195	1
430	1.982046		1	1	1	3.0862785	1.2379581	2.6677955
431	1		1	1	0.1446572	0.2541708	0.6371522	0.4135245
432	1		0.0437379	1	0.1619188	0.2446431	0.2201238	0.0204494
433	1.6441954		1.1549327	1.8648441	1.7586597	1.3039472	2.4570303	2.0373807
434	0.514388		0.8558331	0.5710409	1.9360627	0.5193749	0.7450615	0.4778801
435	1		1	1	1	1	1	1
436	0.2254193		1	1	1	1	1	1.5286857
437	0.4887143		0.7125397	0.6494179	0.5501002	0.4334969	0.6132272	0.3866208
438	1.4005958		1	1	1.4017784	3.8084777	2.6418666	3.0227601
439	2.501744		1.6499863	1	0.6876651	1.4179294	1.2823781	2.4868981
440	1.786994		1	1.9214913	1.2537467	1.3130578	1.7773496	2.0733502
441	1.8671566		1	2.4208174	2.5135009	4.2921663	1.8992752	1.584811

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
442	1		1	1	1.4038267	0.4727154	1.1939757	1
443	0.4773219		1	0.6375493	1.9671983	0.4289947	0.7581179	0.4054007
444	0.5050528		1	0.5703574	1.483728	0.698612	0.7183982	0.4672877
445	1.8750956		2.1029024	1	0.4799539	2.6000702	1.2912988	1.1321927
446	0.4464421		0.3630544	1	0.5515017	0.3496489	1	0.2779868
447	1		1	1	2.2314971	3.6171223	1.6640907	2.2109239
448	2.2678286		2.1677566	2.2471463	1.9777091	1.9251468	2.6553041	1.8389044
449	2.5888951		1.2374153	2.3934997	1	1.3804959	1.6380061	2.4101518
450	1		1	1	0.3877868	0.4213375	1.4257444	0.177184
451	1.5339997		1	1	1.6479893	1	1.4840253	1.5417168
452	1.754109		1	1	2.0899048	1	6.063447	1
453	1		0.635199	0.6910703	0.6377584	0.339005	0.4960301	0.4805036
454	1.6235867		1	1	1.5612942	3.425348	3.0474759	1
455	0.5195941		1	0.5987157	1.777377	0.5176676	0.7311864	0.4146113
456	0.4725466		1	1	1	0.001	1	0.5413284
457	0.3790235		1	1	1	1	0.517612	1
458	1.894687		1	1	0.6313633	6.1622134	1	5.5970618
459	1.3745433		1	2.6555513	2.5071626	1	2.4685623	1.4244077
460	1		1	1	1	1	1	1
461	0.528558		1	0.6746465	1.8833955	0.6062436	0.6967176	0.4613712
462	2.6590095		1	1	1	2.4793482	2.728928	2.7454533
463	2.5903655		1	1	0.622157	2.4528876	1.8418976	2.3185224
464	1.819062		1	2.076805	0.6671682	1	1.4765161	1.8691288
465	1		1	1	1.2767168	1.8395164	2.1456953	1.732982
466	1		0.6581207	1	0.6184847	2.5696255	1	0.766552
467	1.3660844		2.4390376	1.6353865	2.5315098	3.4056286	1.5276407	1.7021172
468	1.7370798		1	3.2755694	1.8481017	1.2160307	2.6597785	2.5544135
469	1		1	1	1.844832	6.2299301	1	1.2043781
470	0.4848153		1	0.6066528	1	1	0.699103	0.4110299
471	1		1	1	0.2818045	0.1487556	1	0.2779644
472	0.4973886		1	0.6416931	1.7416796	0.5588575	0.7486185	0.4473556
473	2.6858047		1.6091738	1.4880087	1.2879477	1.3404827	1.8364492	3.413497
474	1		0.4248386	1	0.4132458	0.2915661	1	0.4407079
475	4.2149548		2.0529152	1	1	1	1	1
476	2.0878675		1	1	0.7813462	1.6234539	1.8195112	3.1424639
477	1.6424428		1	1	1.5214554	2.3275116	1	1.601737
478	1		1	1	0.1800662	0.6042244	1	0.6221405
479	1		1	1	2.0361069	2.0637919	1.5883777	1
480	1		0.1138087	1	0.1942065	1	1	0.6142926
481	1		1	1	1	0.4598698	0.658	0.5478157
482	1		2.1089731	3.1538773	1	4.4224687	1	1
483	0.4982129		1	1	1.5523088	0.5460202	0.7537846	0.4270675
484	1		0.4945061	1	0.3244932	0.0893566	1	0.4335045
485	2.1405963		2.9888435	1	1.5856441	3.1297252	2.9629269	1
486	0.1695639		0.1476916	1	0.0773445	0.013028	0.1501697	0.0727991
487	1.552633		1.7676625	3.0486853	1.7893164	9.0023602	1.2556019	1.8241768
488	0.559163		1	0.6123436	1	0.6782194	0.7768768	0.42247
489	2.3998586		1	1.8863006	1.40468	6.1689188	2.2823287	2.1971564
490	1		0.6668411	1	1.826195	2.7636836	1.5983852	1

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
491	0.5790439		0.4945583	1	0.7508278	0.4020189	0.7775684	0.425786
492	2.0916847		1.3696301	2.7019269	0.4231104	2.0101299	1.918881	2.0421712
493	0.4000259		0.3652384	1	1	0.8483706	1.2670633	0.8846963
494	1.6632966		1	1.5432665	1.2003464	2.9818469	1.3451053	2.0726434
495	1		0.2109422	1	0.0399715	0.0588685	0.3910426	0.1679347
496	0.5819552		0.6301422	1	0.472569	0.4919824	1	0.4814373
497	1		0.2792699	1	1	0.001	1	0.5581764
498	3.9073379		1	1	1	1.6987324	1	3.773147
499	1.760184		1	2.400251	2.8455895	3.3540816	3.2118453	2.5310994
500	1		1	1	0.3608323	1	1	0.4167428
501	1.5525216		1	1.5196113	0.6445418	1.625704	2.0684014	1.6855643
502	0.372956		0.3175667	0.6315334	1	0.3446798	1	0.2477792
503	2.1191706		1	1.9319299	1	4.3342786	1.851143	2.2903706
504	2.1626904		1	1.7838651	1	2.1269606	1.8758725	1.8875196
505	0.5668792		0.6079874	1	0.2670607	0.4033847	0.7077837	0.3822583
506	2.0984281		1	1.8229909	1.4142288	1	1.8514111	2.2969604
507	2.3406167		1	2.0697691	1	3.4023924	1.2919622	1.8424194
508	1		1	1	1	3.3981437	1	2.1389437
509	1		1	1	1	4.466017	1	1
510	1		0.4936024	1	0.5355397	1	1	0.3250802
511	7.8017981		2.5481691	10.63841	3.83961	14.502417	8.1048746	13.06814
512	0.1756463		0.4757288	1	1	0.2212702	1	0.3370942
513	0.4702072		1	0.6400497	1	0.3875518	0.5971502	0.3874357
514	3.1156187		2.1566364	2.3101117	1.6103106	4.965392	5.589888	2.7825697
515	2.1449705		1.547376	1.5410373	1.4421122	2.557358	1	1.6590283
516	2.7131271		1	1	1	1	1	1
517	0.1975102		0.0184638	0.3516081	0.1843508	0.0206263	0.4508197	0.4044299
518	3.4435695		1	1	1	1	1	1
519	0.8067135		1	1	0.4871345	1	1.2214577	1.9593463
520	0.1464227		0.2075678	1	0.4169354	0.1210304	1	0.2158248
521	1.7436821		2.1999682	1	1.2780526	2.2604611	1.5426309	1.6584713
522	1.5386264		0.8060131	2.1529314	1	1	2.2564559	2.0006609
523	1.9794838		1	1	1000	1	1	2.523664
524	0.5919439		1	0.5543322	1.6680832	0.6074453	0.7118912	0.5339773
525	5.3436185		2.9718019	1	1.6944625	2.556493	1.733706	5.9470361
526	2.0357774		1	1	1.7897659	1	1.6854326	1.1560226
527	1.5905606		1	1.8664023	1	2.926561	1.486312	2.9686039
528	2.5888505		1	1	1	4.2816311	1	1
529	0.2921993		1	1	1	1	1	1
530	0.4031822		1	1	1	1	1	1
531	1.5389755		1	1	1.8032029	3.311631	1	1
532	2.5850332		1	1	0.8389352	2.1709429	3.2102503	1
533	0.1621745		0.0147924	0.2401275	0.1131522	0.195451	0.2943829	0.0925217
534	2.1741793		1.6486129	2.4519578	0.809347	2.0551881	1	1.4958761
535	3.0500121		1	1	1	1.973739	1	1
536	0.4986585		1	0.5489806	1.674322	0.620691	0.6680217	0.4208817
537	1.8245948		1	1	1.1549481	1.7306242	2.5062212	1.7194846
538	2.5796861		1	3.8242724	1	4.1939977	4.4319056	1
539	4.1133813		1	1	1.9584121	3.0661094	1.706591	3.5233644

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
540	2.7060198		1	1	2.1127817	4.1908973	1.7058288	1
541	1.9870812		2.9575031	1.6774888	1.3968091	2.5403598	1.8573395	1
542	3.2406156		2.6334745	1.6896623	2.0353799	3.0487961	1.9639643	2.3793873
543	0.5241837		1	0.5547237	1.4773191	0.620708	0.7027447	0.428531
544	0.1876328		0.3430322	0.7116847	0.3850365	0.2589619	0.5864651	0.2038521
545	2.7711956		1.7832952	1	2.5500827	1	1.7889522	2.4652561
546	2.6934392		1	1	1	1	1	1
547	1.7611123		1	1.5835063	2.0638749	2.5195673	1.7074097	1.4505498
548	2.8033453		2.0184644	1.1842585	1	1	1.5434637	2.1225155
549	1.9287082		1	1.367034	1.4154931	2.1889648	1	1.4136057
550	1.6834524		1	1	1.4894399	2.6728023	1.5370272	1.568737
551	0.2756751		0.5637365	0.0819887	0.0440206	0.219779	0.1008377	0.1580836
552	1		1	1	1	1	1	1
553	0.6901532		0.5317922	0.4510685	0.3414312	0.5821717	0.4358437	0.479754
554	0.4344705		0.842238	0.4679232	1.5481211	0.4930128	1	0.4034698
555	0.3592465		0.0234481	0.0153429	0.0366223	0.2117303	0.0130987	0.3333774
556	2.4045596		1	1	0.6088183	1	1	2.5679417
557	0.5418961		0.4889797	1	0.32682	0.4074386	0.5270267	0.4732928
558	1		0.8265693	2.8396423	1	5.0092656	1.2367442	1
559	1.4577954		1	1	2.4367829	3.5167142	1.6782198	1
560	3.1579205		1	1	1	1000	1	1
561	2.2406919		1	1	1	2.1076534	0.776411	2.7366126
562	2.6543679		1	1	0.8965344	1.2594338	2.3568984	4.4492293
563	0.5596605		1	0.4422961	1.7866991	0.4908394	0.7076426	0.4143722
564	1.3444136		1	1	1.9330426	1.660828	2.181985	2.0601634
565	0.5672134		1	0.3695615	1.6553593	0.4846606	0.6530174	0.4631122
566	2.2636326		1	1	0.4897825	1.5233399	1.4133514	1.8508327
567	7.5899546		12.470591	12.195781	1	1	2.0214831	1
568	0.6225489		1	1	1.74012	0.5116986	0.7193157	0.43994
569	1		0.5983144	0.3487246	1	1	1	1
570	0.415191		0.2606382	0.4083981	0.2856398	0.1501791	0.2806914	0.3209158
571	0.6881703		0.5802446	0.5930775	1	1	1	1
572	1.6796723		1	1	0.7355459	2.20865	1	1
573	2.6702979		1	1	1	1	1	2.2410148
574	0.3325925		1	1	1.7548337	0.4039068	0.632466	0.6785555
575	0.7439737		0.8195615	0.7208935	1	1	1	0.4657896
576	0.8011436		0.5740187	1	1	0.6468839	1	0.4837474
577	0.7370001		0.4747987	0.2340696	1	0.7032919	1	0.6109355
578	1.3741794		1	2.4153367	2.1069507	1.8314445	1.7917046	1.9171888
579	0.575442		1	0.5441909	1	0.3925815	0.5074915	0.4495107
580	0.4310542		0.8492764	1	0.6252186	0.5024434	0.6872746	0.4520198
581	2.1476812		2.9012797	1	1.2888991	1.8970174	2.2571757	2.0684666
582	1.7968342		1	1	1	1.3898026	2.135603	1.9475657
583	1.9344786		1	1.6660717	1.1134674	0.8708059	1.7438829	1.6922046
584	1.9231605		1	1	2.2806613	2.186643	1.79409	1.4954798
585	1		0.4584502	2.4808064	1.1174984	1.6661565	1.2290515	1
586	2.5342131		1	1	1.4530917	3.0550941	1.1205917	2.3422965
587	0.273254		0.2648476	0.4527857	1	0.4828855	0.7223645	0.3270212
588	1.4619989		0.1613561	0.4082932	0.3042445	0.7190204	0.2823428	1

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
589	0.5347443		0.1184378	0.3539604	0.2142819	0.4371965	0.1003437	1
590	0.6376992		0.6735078	0.6225513	1	1	0.7703697	0.5083787
591	0.6366669		0.6693601	0.5502061	0.7134572	0.5718655	1	1
592	0.5752267		0.7005102	0.5335524	2.1073662	0.8039854	0.7697487	0.4799667
593	0.3788602		0.701177	1	1.3759498	2.187346	1.4719287	0.6919517
594	0.4155475		0.596808	0.6988129	0.4760844	0.5481142	0.6862442	0.367923
595	1.5686373		1	1	1	1.602611	1.4312916	1
596	0.559059		1	0.7087351	1.6624076	0.5560483	0.6927795	0.5166231
597	1		7.9027586	5.2523679	1000	7.2127689	1.3803646	1
598	1.9949237		1.9362454	1	1.5898898	2.6754301	1.1888802	1.9100536
599	1		2.0605089	2.3207622	3.2000103	2.5600525	1.693097	1
600	7.5080987		10.691856	1	4.9885808	1	0.659101	1
601	0.6416427		0.6765652	0.6202554	0.7097322	0.5765765	1.616396	0.5188446
602	2.8908529		1	1	2.4841451	3.7550829	1.3658826	2.038379
603	1.4346987		1	1	1	1.8951677	1.4371493	2.3654299
604	2.9311867		1.6310539	1	4.7339317	3.9140922	4.0734264	2.1893053
605	1		1	1	1.6138363	0.4822796	0.6848327	0.4331434
606	2.63266		1	2.0575554	1.1775664	1.7863364	1.8037729	2.8258468
607	2.498714		1.5994421	1.9763182	1.6305474	2.2269415	1.8828171	2.5672744
608	1		0.4441951	1	2.5645384	0.475142	1	0.4533967
609	1.8396485		1	1	0.257391	1.3608617	0.5149302	1.8698805
610	1		0.1356607	1	0.5846806	0.6414796	0.8220025	0.5388336
611	0.4020905		0.297768	1	0.7552914	0.7913047	1	1
612	0.6118992		1	0.5611955	1.5228645	0.5690433	0.6841128	0.5418145
613	0.5478894		1	0.476568	1.5917841	0.6464106	0.7363949	0.4895119
614	0.460263		0.6788273	0.473917	2.2062203	0.3747925	1	0.3529895
615	0.5712534		0.8777643	1	1.3313239	0.4443498	1	0.6419333
616	1.6569395		1	1	1	1.4116624	1.410232	1.830175
617	0.2090437		0.8467992	1	0.1093827	0.3140416	0.1908069	0.1407641
618	0.1671949		0.8340256	1	0.1096706	0.3159977	0.1573543	0.1186989
619	0.392837		0.2273621	1	0.813157	0.7523954	0.5206185	0.4834131
620	1.0959347		0.3855788	1	0.1998188	1	0.3535531	0.6479697
621	1		1	0.7027082	0.4548922	0.1425237	0.6715646	0.4478144
622	4.8985503		1.9889606	1	1.7979325	2.6788012	2.1682652	1
623	5.0440966		1.6952736	1	1.3416223	1.747966	2.3461851	2.7007042
624	1		1	1	1000	1.1524985	1	1
625	1.5883623		2.3057124	2.256439	1	1	1.6336446	1
626	0.9263262		0.4907946	0.4870733	0.505028	0.814965	0.4952821	0.5424988
627	1		0.5197716	0.5422794	0.682936	0.4494994	1.208613	0.4948788
628	1		0.7741181	0.4029782	0.6906981	0.494385	1	0.5016032
629	2.2814564		1	1.9610281	1	1	1.5289534	2.5098796
630	6.0168613		6.7038219	1.7568136	5.6896643	4.1813667	2.1985701	3.66842
631	1		0.3832098	0.5698891	1	0.2841675	1	0.2539427
632	0.2324598		0.4061673	0.674252	1	0.3990055	0.8213956	0.3818926
633	2.0312174		1	1	0.5824542	1	1.4943999	1
634	1		0.6158944	1.8498829	1	1.5397514	1.2243936	1.2103539
635	0.5880895		0.4981656	0.5687192	0.7745584	0.5024063	1.2319734	0.4610724
636	1.9960525		1	1	0.8355004	1.6919727	1	1.9664637
637	2.0739872		1.4802497	1	1.2115721	2.0740476	1.5265115	2.6162234

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
638	0.7618495		0.2311303	0.424755	0.4961544	1	0.6949532	1
639	1.9505127		1.3321871	2.4027522	3.2816839	2.1470314	1.6522199	2.3623191
640	2.2579216		1.9013827	4.2984831	1.9666553	3.3043927	1.3426069	3.0920586
641	0.4065316		0.6158902	0.3677571	0.3957615	0.7024713	0.4172401	0.4168022
642	0.5792964		0.8012668	0.5516456	1	0.6734926	1	0.5098512
643	0.5505704		1	0.4791781	1.7104618	0.4579166	0.6489382	0.425566
644	5.0587121		1	1	1	4.7220682	1.6496934	2.7681462
645	4.6133023		2.3072643	1	1.6745843	2.5630425	2.1573402	1
646	0.5624158		0.866382	0.5760386	1.7592748	0.4852725	0.7571863	0.4537038
647	0.5731844		0.8706305	0.4769527	2.0510524	0.8263591	1	0.4991166
648	2.1398388		1	3.166732	1	1	1.5682638	1
649	5.1419865		2.267582	1	1.8578193	3.772993	1.5303932	4.2141354
650	2.3283182		2.0650443	1	1	3.1000609	1	2.3101868
651	2.6934986		2.1797914	1	3.3600925	4.7855118	1.7270437	1
652	1.9908316		1.2933872	2.2322687	5.2286598	2.7373289	2.1009648	1
653	0.5030625		0.7050263	1	1	1	0.2697946	1.742265
654	0.3013488		0.9264408	0.4030896	0.7620023	0.2786299	0.464469	0.4166352
655	2.424604		0.001	2.4480111	1	0.7245802	3.4225544	2.4568265
656	0.48662		0.2128896	1	0.2387394	1.9433495	1	0.3592632
657	1.6851011		0.5624452	1	1	1	1	1
658	1.8605469		1	1	0.8277277	2.1416243	1	1.9680796
659	0.4458629		0.2297972	0.2833743	0.314642	0.4297508	0.4930095	0.6159922
660	1		1	2.4316882	1	1	1.6849386	1
661	1		0.6185402	0.767639	1	0.4288108	1	0.354484
662	1		1	0.6588031	1	1	1	1
663	1		1	0.3034475	1	0.4352859	1	0.2956179
664	2.0815549		1.1905707	1	1	1.7011537	1.9416626	1
665	1		1	3.3069385	1.9549643	7.7378112	1.5893799	1
666	2.3846489		1.8666969	1.2226028	1.1636559	1.5374548	1	1.7120724
667	9.2925305		1	8.6317444	1	5.5905034	2.9831396	9.7551357
668	4.7048499		2.4158981	1.2426027	1.5046417	2.3474289	1	5.3934836
669	2.7792089		2.3758413	1.8965607	1	8.7781724	2.1872499	1
670	4.0329958		1	2.1066127	1	1	1	1
671	1		0.5558922	0.4649102	2.0053538	1	1.6102983	0.479059
672	3.4706246		1	1.9968007	2.4978608	3.9454176	2.1206552	3.3982333
673	1.581515		1.2787643	1	1.8588694	2.9299641	1.3853048	2.1981341
674	1		17.469093	1	1	2.9478653	1	1.5023591
675	3.1811435		2.9413984	1.8749698	2.5693934	16.444485	1	1
676	1.8090064		0.6909683	1.3660413	1.160702	1.203404	0.7092093	3.0561892
677	1.7562033		1	1.7384832	1.6196139	1.5516921	2.2073215	2.2340468
678	0.5811457		0.8349476	0.5398752	2.1467305	0.5513481	0.6754039	0.4295698
679	1.5514893		1	1	1	1.9357739	1	1.6642334
680	7.352519		1	1.5520122	3.0947293	5.2586254	1	1
681	1		1	1	1	3.2103646	1.3764406	1
682	0.5459882		0.2039541	0.1126829	0.1590085	0.4247017	0.03461	0.6399685
683	3.4942486		1.3802353	2.125594	3.4214027	2.1791485	1.6239617	2.8348676
684	0.7299374		0.2125774	0.5965671	0.7768949	0.3599591	0.4349827	0.4423902
685	0.5712534		0.4627346	0.5885749	0.2135439	1.177167	0.3638147	0.5073572
686	1		0.391316	0.6089631	1	0.4167484	1	0.542216

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
687	1		1	1	1	1	1	1
688	0.5010647		0.8185378	0.6467736	1.4107288	0.434613	1	0.3857659
689	0.4283658		0.5228911	0.5907004	0.8523323	0.6423457	1	0.3821955
690	2.541053		1	1.9527777	1	2.4162968	1	1
691	1		1	2.0470081	1	1	1	1
692	2.7715001		1	1.1750888	2.5195001	2.4321918	1	2.3772403
693	0.5746994		1	0.6494002	1.3528729	0.5904378	0.7412222	0.4946651
694	1.915266		1.3005021	1.8255517	2.2422058	1.5025473	1	1
695	2.2801865		2.2821558	1	0.9025913	2.3422564	1	2.3297306
696	1		0.0246724	0.0653719	0.070743	0.0217265	0.6300382	0.0122661
697	1.9148056		10.689291	5.0316398	3.0634615	4.7888805	1	3.6994996
698	1.8170791		1.2902603	1.7936683	1.767311	1.5285767	1	1.5921218
699	0.520968		1	0.5433925	1.7323286	0.5672356	1	0.4209714
700	1		1	1	1	1	1.9353673	1
701	0.4599882		0.7712577	0.5951415	1.8844748	0.5769236	0.6688827	0.4342739
702	2.036728		2.269083	1.282212	1.7083771	1.0584339	1	1
703	0.5124571		0.8184702	0.6456344	1	0.5250589	0.575653	0.4688678
704	2.0507197		1	2.1610024	1	1.5439798	1.6400951	1.700945
705	1		0.7346102	0.60362	0.750874	0.6035169	1	0.5478157
706	0.5844951		0.7968753	0.53727	1.616124	0.4808581	1	0.4332336
707	0.4734601		0.8125974	0.5562648	2.4200236	0.443527	1	0.4055942
708	1		1	0.5290778	1	1.9576656	1	1
709	2.5353345		1	1.8984244	1	1	1.6048076	3.3951677
710	2.6196337		1.531555	3.0285347	4.578297	2.6642192	2.4679695	2.7418341
711	2.9823485		1	2.1091613	1.957874	2.233375	1	2.2356899
712	2.8713061		1	1	1.9580534	2.4435486	1	1
713	1.5687636		1	1	1	1	6.6394952	1
714	1		1	1	1	1	1	1
715	0.5631288		1	0.4656067	1.4661981	0.5532582	1	0.4826515
716	1		1	1	1	1	1	1
717	0.5380714		1	0.6512936	1.4511956	0.3753073	0.7682384	0.3946084
718	1.5385373		1	1	1	1	2.3332557	1
719	5.6360851		2.1415568	7.0002424	3.3298015	8.1581528	1	14.443733
720	4.9338711		2.0696958	1	3.7566559	8.6785095	8.4552801	1
721	3.1039218		1.48548	1	1	1.7535528	2.199657	3.374583
722	2.6904983		1	1.9414274	0.6569635	1.4675735	1.4098509	2.4632584
723	1.6305899		0.5418798	1	2.2300028	1.9256917	1.3509489	2.8949895
724	2.2070494		1.1906025	0.8257891	1.2559723	2.630431	1.392193	1.9564362
725	0.4059004		0.4296617	0.3245335	0.7584144	0.2156553	1	0.4259375
726	1.3004705		0.7036848	1.3927377	1	4.9916235	1.5206256	1.8076552
727	2.2518318		1.3404821	1.8345004	1	2.1655526	1	1
728	0.3965206		0.5217097	1	1.8311424	1	0.7190193	0.3832332
729	0.3089908		0.4586319	0.5510332	1.8172394	1	1	0.3831385
730	0.1517698		0.4276825	1	0.5439354	0.2358161	1	0.3409286
731	1		1.6510255	1.214295	1	1	1.2731892	0.4586643
732	2.2349511		1	1	1	1.5025805	1.7153141	1.6983499
733	0.5819923		0.8488073	1	0.1928036	1	0.302739	1
734	1.9899033		1	1	0.6832476	1	2.0580833	1.7413821
735	0.5502733		0.5047418	0.7229789	1	0.3356266	1	1

Table 4

SEQ ID	Patient ID							
NO	577	695	784	786	787	789	790	791
736	2.3038625		0.7325813	1.2385548	1	1	1.6088162	1
737	0.6669822		0.4763721	0.5657976	0.389395	0.3902686	0.7552808	18.764508
738	5.8887823		1	1	1.3555249	4.6216601	1.8631548	5.4294229
739	0.7627704		0.4452781	0.5437976	1	0.3999132	0.4591899	0.4486813
740	2.0268877		1.3379868	1	1.8564261	1	3.9297778	1
741	2.4094835		1	3.4608054	1.6450338	2.4244774	2.2365819	2.0397994
742	1.8019363		0.8774187	1.3958381	1	1	2.0568271	2.0798429
743	1		0.2308459	0.2345951	0.001	1	1	1
744	3.8465884		1.2389118	1.1790623	1.3283175	1.6642815	1.5370978	2.7547353
745	1.8836956		1	1.6454002	1.3264706	1.4830257	1.7287798	2.2536672
746	0.2807326		0.0199671	0.0579936	0.0267714	0.1745728	0.0109956	0.4480861
747	2.3746527		1.504487	3.1080735	2.3024164	1.965925	2.3521416	2.6655462
748	0.2596485		0.498369	0.612029	1.4564542	1	0.6228395	0.1481112
749	0.0557737		0.0446167	0.0326055	1	1	0.10455	0.0238081
750	0.2518803		0.1801072	0.288743	1	1	1	0.1916501
751	2.6891838		1	1	2.1961687	3.7013513	2.0717184	2.3457724
752	0.5734443		0.4050873	0.2689028	1	1	0.3206228	2.4502762
753	4.6904869		2.5129645	2.8926177	2.182223	5.7385775	2.4247211	4.2533693
754	0.5864334		1	0.6662268	1.5212493	0.6213032	0.5985334	0.4718461
755	0.2731798		0.0254652	0.0802274	0.0456507	0.139384	0.0642234	0.4540583
756	0.4554357		0.4319732	0.1273302	1	1.4643514	0.001	1
757	2.2845236		1.3061435	1	1.5812904	3.7732022	1	1.7781702
758	2.8200329		1.7128668	1.5271434	2.2608271	4.3995885	1.6063743	3.4057013
759	2.3790864		1	1	1	1	1	1.8648949
760	2.3986778		1	1.3960017	0.5764784	1	1	1.6801537
761	1.8971526		1.0878736	1.6709401	0.4402444	1.1977471	1.5954775	1.7523082
762	3.6534079		4.05419	7.4419027	2.7425753	2.2274519	1.7391967	1
763	0.458904		1	0.4185716	1	1	1	0.4310669
764	1		0.4840377	3.0190689	2.0096412	7.8268334	1.280529	1
765	2.6072982		0.4523035	1	1.4346164	1	2.5370484	1
766	2.1131327		1	1	0.8462016	1	1.3388947	2.1151312
767	1.8202057		1.2212232	1.3518066	1	1.7152217	2.8668459	3.2321641
768	2.1052977		1	1	0.5052191	1	1.4425272	2.0283352
769	2.1081718		1	2.0134496	0.8428242	2.2360911	1.4465641	2.1202379
770	0.5873914		0.7986247	0.5540572	0.6950728	0.6252949	1	0.4995772
771	1.6738498		2.9080955	1	2.0276826	1	1.1848997	1
772	2.5131735		1	1.7108129	1	1	3.6798148	1
773	0.8023987		0.4347801	0.3938697	1	0.4632328	1	0.5714748
774	1		0.8399679	0.3261892	1	0.4468305	1.8229411	0.63078
775	9.017093		0.7557389	1.9927925	1.8020881	1	3.8718215	1
776	2.2727748		1.2028627	1.9380585	0.4990457	1.7077299	1.6261918	1.964118
777	0.6230613		0.7560017	0.714409	1.6874611	0.5448962	0.6072142	0.4400821
778	7.8114453		4.6439825	2.2540198	3.6521355	7.2043669	2.5430896	1
779	1.342156		0.7147339	1.4286752	0.7661611	1	1.7307136	1.3438316
780	0.1552752		0.3376111	0.4880478	0.3871976	0.0880257	0.3629819	1
781	2.6524741		1	4.5493556	2.0826875	2.0479496	4.0245743	4.448478
782	0.4013999		0.0481831	0.0524001	0.0422135	1	0.0225982	0.4069495
783	5.6405633		1	1.7606649	3.1942088	4.8255665	3.3028308	4.2116652
784	0.6316168		0.3582129	1	1	0.6515802	1	1.4061113

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
785	0.0283547		0.0526896	0.118833	0.2446534	0.2375636	0.2576839	0.001
786	2.1390218		1.4367262	2.023825	1.7360189	2.1678298	2.6899847	1.8033246
787	2.4050424		1	1	1.4151043	2.5476851	1	2.1605191
788	1.2841394		1.1072816	2.2264975	2.8874708	2.2353564	4.1656963	3.7699074
789	0.0683841		0.0875485	0.0926809	1	1	1	1
790	1.9676978		1	1.6280486	1.8549896	3.2100616	1.8794577	3.9311668
791	1.6571697		0.6253276	1.9274498	1.6148679	2.4160394	1.4702208	1.7259807
792	0.6763694		0.790416	0.3909058	1	0.447922	1.7054477	0.7175186
793	0.2302318		0.2582786	0.3732707	0.3302346	0.4394615	0.5297086	0.1393257
794	2.2142532		1	1	1	2.042784	1.6063038	2.1725751
795	0.2724222		0.4383318	0.4226079	1.5131606	1	1	0.3409845
796	1		1	1	0.575307	0.485612	0.7552526	0.406441
797	1.842983		0.7405922	1.58277	1	1	2.6753333	1.2879462
798	4.7055109		3.6220308	1.6887043	1	4.314761	1.795685	1
799	2.8535491		1	2.7784916	1.9304728	1.5301583	1.9210264	2.6511509
800	2.5087101		1	1.8587823	1	1	1.3017157	2.3629547
801	0.5823785		0.4504451	0.5689727	0.8302465	0.4424712	1.2492501	0.479274
802	2.8631517		1	2.2364593	1	2.3606245	2.3410613	2.1636538
803	0.6255121		1	0.4446485	0.6765013	0.5491805	0.879366	0.4378392
804	1		0.2458013	0.6513352	0.1551048	1.775752	0.2104409	0.4720687
805	2.2632539		1.1321923	1.2582864	0.6557152	1.5201063	1.7462401	2.2201154
806	1.7608895		1	3.7944301	1.3955153	1.5592674	2.7657824	2.6591787
807	1.7556389		1	0.7881911	0.5100672	1	2.1718222	1.692567
808	2.6146728		1.5238564	1.6677821	1.0595091	1.4937715	1.9804366	3.4035014
809	2.9440941		1	1	1	1.5882438	2.223342	4.3979806
810	2.6474092		1	1.4503881	1	1.212952	2.6022457	2.4748281
811	2.833475		1	1	1	1	2.1715822	2.3521251
812	2.7327259		1	1	0.6400508	1	1.4399018	2.7846284
813	5.0674161		1	1	1	1	1.2976929	2.70616
814	2.9993628		1	1.4123587	0.6183071	1	1	2.2130907
815	2.3429041		1.1646518	1	0.4697348	1.1821171	1.6158455	2.0613993
816	0.5649186		0.7940992	0.5586036	1.4817207	0.5290071	1	0.4322763
817	0.5617103		1	0.5721562	1.6308658	1	0.7120324	0.3848268
818	0.5697236		1	0.6025667	1.5318091	0.603908	0.813844	0.4801066
819	0.5014732		0.5492058	0.5068388	0.7498383	0.5321311	1	0.4719532
820	0.6812264		0.7075112	1	1.4962564	0.5040703	0.5608887	0.4134596
821	2.3159901		1	1	1	0.7021306	1.8940385	2.3647929
822	1.9809691		1	1	1	1	2.5464349	1
823	2.6206215		1	1.7344756	0.7859895	0.7270271	1.616029	2.198501
824	0.2250183		0.6567193	0.5626843	0.4981308	0.2009702	0.7586825	0.2030957
825	0.2054195		0.3568518	0.5377753	0.2895602	0.2614077	0.5285512	0.2252761
826	2.4400513		1	3.426136	2.1208395	1.3049977	2.9714806	2.6326941
827	0.5929242		0.7772166	0.5515136	1.4907072	0.6422184	0.6076941	0.4478702
828	0.2582152		0.6035614	0.3017539	0.6617176	1	1	1
829	2.0418226		1	1	0.813975	1.7839942	0.7703274	2.2403795
830	0.0712656		0.0622026	0.1176388	0.0661119	0.0597742	0.0237556	0.0129291
831	0.1270987		0.4499016	0.2178688	0.2899621	0.1142477	0.4387655	1
832	2.5368198		1	1	2.3060075	3.8210984	1.2496171	1
833	0.0516074		0.055384	0.0582388	0.0630509	0.0570901	0.0196622	1

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
834	0.6140232		1	0.5660934	1.4437482	1	0.6073412	0.4345724
835	0.2193815		0.672791	0.5024072	0.5211058	0.3875628	0.5139562	0.0731556
836	0.5711495		0.8425485	0.6204062	1.4127016	0.5812614	0.8944267	0.398225
837	0.5528578		0.7444212	0.5778314	1.4858676	0.6296878	0.8888371	0.4325271
838	3.4418688		2.191745	1.4380741	2.4494238	3.0795725	2.4290261	3.6984609
839	3.4845792		1.8689281	2.0180541	2.2714296	3.338609	3.2937548	3.8955153
840	1.894479		1	2.6718303	1.7228342	2.5847582	1.0930674	2.0808833
841	2.6408664		1	1.8050373	1.8407531	2.9745458	3.7889945	3.93763
842	2.7760972		1	1	1.4362153	2.5473036	1.4626834	2.999359
843	0.1565823		0.2335009	0.5369512	0.296127	0.2329847	0.6050828	0.246561
844	2.1468643		1	1	1.4100595	1.3497378	2.495155	3.0852992
845	1.9238883		1	3.475107	1.7555823	1.7805857	4.1607419	3.0996984
846	0.3432422		0.1576021	0.2533646	0.2849002	1	0.3869351	0.1322461
847	1.7962326		1.5237261	1	1.9875212	1.4163648	3.2034187	5.1888202
848	0.189586		0.194698	1	0.7845701	0.4214732	2.3642099	0.8019248
849	0.560975		0.8286442	0.6484281	1.6500016	0.6100873	0.7005004	0.4260201
850	2.0485957		1.3532844	1.5535977	1	0.8522925	1.4829244	2.0020292
851	0.2345838		0.2244382	0.279979	0.3087217	0.2595081	0.2123746	1
852	1.3682307		0.5172708	1	1.2198895	1.9252012	1.5893516	1
853	2.2441527		1.3525041	2.1546836	1.7763855	1	1.6425935	2.621169
854	3.1902633		1	1.9268263	1.7694853	2.5332652	1.727453	5.2487787
855	0.5111352		0.5156279	0.4206259	0.7501632	1	1	1
856	1.3844281		1.2976619	1	1.7066482	2.0944165	1.5672334	2.3883751
857	0.3375312		0.5804109	0.4678589	2.7771959	0.5661782	1.3431292	0.2394221
858	0.1060072		0.1428906	0.2076063	0.2297329	0.1884636	0.3925388	0.1544126
859	0.4494054		0.4082117	0.649713	0.3548855	0.7309485	0.3152449	0.4906089
860	0.1536488		0.3581352	0.4497743	1	1	0.475394	0.0988562
861	2.6590021		1.8783812	2.5433915	1.7691689	4.4748297	1.724136	1
862	2.6590021		1.8783812	2.5433915	1.7691689	4.4748297	1.724136	1
863	0.5618588		0.7384997	0.704148	1.4541541	0.5982048	1	0.4423704
864	0.477463		0.1766986	0.6571013	0.5799498	0.4495053	0.1521458	0.3350138
865	0.4913953		0.3190354	0.4303789	0.2146927	0.3520773	0.1429711	0.3350848
866	2.7156076		1	1	1	2.1781717	1.8126936	2.8366991
867	2.7711659		1	1	0.5446451	1	1.5610087	1.9260188
868	0.6267004		1.1424235	0.6397748	1.6726945	1	0.5099334	0.4930974
869	2.6081151		1.5820948	2.9880225	1.8898924	3.6662447	1.3474625	2.7522412
870	2.6333878		1	1	1.3070867	1	1.4148335	2.9129145
871	2.4493791		1.3691252	2.1462085	1	1.8041965	2.5616085	2.4029707
872	2.0229591		1	1.6083767	1	1.391679	1.5388763	2.1856727
873	2.6404356		1	1	0.5365564	1.6185101	1.719351	1.8780114
874	2.1824377		1	1	1	1	1.3113421	1.9199366
875	1.6940279		1.5858952	2.1686076	1.3598258	2.250069	1.798748	2.0132998
876	1.3081496		1	1	0.6404954	1.3313015	2.3515064	1.8602422
877	0.350342		0.372888	0.1346543	0.0347147	0.3072507	0.0993839	0.114405
878	0.5977664		0.8755655	0.2164818	1	0.5183144	1.8184243	0.7516797
879	2.4151351		1.5278793	1.3339954	0.6734744	1	1	3.1653694
880	0.5655498		1	0.628391	1.3495653	1	1	0.3860637
881	0.1028806		0.1896362	0.2068511	0.3310726	0.1024189	0.3765606	1
882	0.3808282		0.2961276	0.4448035	0.475438	0.2658555	0.6982984	0.3015863

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
883	0.0663195		0.1255569	0.1772176	0.2131194	0.0443638	0.3342155	0.0631841
884	3.0286458		1.4208764	2.3541638	0.9071234	1.6130607	1.7754159	2.4530901
885	2.479078		1	1	1	0.6876942	1.3726154	2.6513287
886	1.7754233		0.7929406	1.7583262	1	1	2.6655939	3.0075767
887	2.1775733		1	1	0.6734744	1.5075417	0.7929538	2.2959595
888	2.1245994		1.2841812	1.6568419	1.7600713	2.095126	2.4865307	2.5622807
889	0.4336313		0.5902627	0.6737245	0.6246002	1	1	0.7672589
890	2.3027411		1	1	0.8913393	1.3182738	1.7176854	2.878122
891	0.5669757		1	0.5951465	1.4865089	0.6453498	0.5494414	0.466155
892	0.6097975		0.9275689	0.564279	1.5182139	0.7310663	0.6556993	0.4346727
893	1		1.046648	1.424859	1.5451135	1	1.6887496	1
894	2.2930791		1.3012616	2.0344237	1.3187068	1.7828722	1.3727848	1
895	3.0565475		3.2949099	6.8095146	2.054454	1.5985816	0.6497286	1.98718
896	2.128179		0.8005831	1	0.6499693	2.1586811	1.8595979	1.4988832
897	0.7061575		0.5321351	1.4210631	1	0.6315115	1.2206813	1.2481028
898	1.8966476		1.5420751	1.5529226	1.1970256	1.529264	1.4161885	1.7661306
899	2.0374261		1	1.8188624	0.8149327	1.5268271	1.8385947	1.7521917
900	0.7418497		0.5281869	1.5966645	1	0.6618687	1.2606833	1.7274142
901	2.7636428		1.3250373	1.1205085	1	1	2.5540006	2.8014075
902	0.6770972		0.4291404	1	1.1176777	0.7857388	1	1.5124791
903	0.5541203		0.6665419	0.6297529	1.5845652	0.5631039	0.6015964	0.3600258
904	2.2106439		1	1	1	1	1.6494393	1.935357
905	0.5669237		0.5221284	0.4942572	0.7187831	0.5136574	1	0.4889094
906	2.3684367		1	1	0.5126665	1.288829	1.4451102	2.0834065
907	0.0652575		0.3732581	0.5474879	1	0.0367633	0.6393823	0.045138
908	0.7271079		0.5930592	0.6238608	0.5256974	0.4842535	1	0.4572341
909	0.3521467		0.4259736	0.4537688	0.5960588	0.3971212	1.1080999	0.3689173
910	0.1931359		0.2315368	0.2766812	0.2705099	0.1898044	0.5129541	0.1201294
911	0.1696234		0.1634014	0.2554198	0.3024457	0.1934359	0.6135095	0.0542864
912	0.6407515		0.650346	0.6069722	0.7757974	0.4806135	1.5859358	0.5208413
913	0.6612563		0.7319076	1	1.5242676	0.6125703	0.5521233	0.4196682
914	0.5988135		0.8603936	0.6071733	1.4982572	0.5970445	0.6573225	0.3975699
915	0.3338921		0.0526741	0.0424741	0.0416064	0.2438058	0.0112214	0.343374
916	0.7131385		0.8587853	0.4317097	0.7329683	0.5729443	1	0.5000545
917	2.2355155		1	1.1772564	0.760723	1.5779291	0.8602966	2.4188557
918	0.535539		0.8064142	0.5829919	1.5022246	0.5847739	0.6431793	0.4088822
919	2.5574063		1	1	1	1.5535701	1.3351259	2.801904
920	7.11518		2.3998953	2.1904047	3.185667	6.9746603	3.1842081	4.6639979
921	0.308055		0.3191519	0.4145107	0.3661464	0.6775237	0.3279626	0.4406096
922	2.1139422		1.4722054	2.3292321	1.7310939	2.2623403	2.2742267	1.8168803
923	2.5899422		1	1.8842122	1.2543477	3.2404895	1	1
924	0.3228488		0.0341647	0.0157791	0.0353218	0.2319038	0.0103887	0.3843832
925	1.5431715		1	1.6062803	1.9784663	1.6920989	1.3838792	1.647478
926	0.5645695		0.7335823	0.6628044	1.3781408	0.6418851	0.59516	0.4115328
927	2.5668232		1.6502002	0.857963	1	1.7841814	1.2065945	2.0841207
928	0.5195347		1.1817777	0.2914972	3.461384	0.6359211	1	0.1789795
929	0.4913656		0.5128242	0.367015	0.1975833	0.4629901	0.127868	0.3336124
930	0.1780377		0.3967403	0.1898243	1	1	1	0.0798495
931	2.9371057		1.4821451	1.3988156	1.3469916	1	1.5597524	2.9974253

Table 4

SEQ ID	Patient ID							
NO	577	695	784	786	787	789	790	791
932	4.6550546		7.6926732	4.0983588	5.494385	8.6006114	3.7285681	8.5778282
933	1.8997296		1	1	1	2.2888281	1.3950442	2.7156442
934	2.4232746		1.2356654	1	1.3418699	2.7809687	1.4653229	2.6779193
935	1.3852525		1.73204	1	1	1	2.0645621	1
936	0.5549075		0.3798713	0.4290691	0.6820932	1	0.4649489	0.5710083
937	0.2909813		0.2011894	0.3967203	0.5141971	1	0.8934104	0.3087541
938	3.0425261		1	2.1735533	0.7229985	1.9082448	1	2.3217916
939	2.5511011		1.2895696	1	1.0904275	1	1.3958629	2.9720644
940	0.5911641		0.6699287	0.6372367	1.3078563	0.5212372	0.5073927	0.3939239
941	3.0413527		1	4.6127694	0.1512314	1	1	2.1193283
942	0.0468395		0.0892287	0.1091788	1	1	0.3478365	0.0700862
943	0.1823377		0.4467266	0.5219309	1	1	1	0.1310456
944	2.0998688		1	1	1	2.5378012	1.3502572	2.1558634
945	2.3076575		1.4061706	1.762836	1	1.7433076	1.6847974	2.1481874
946	0.3113524		0.0406387	0.0281824	0.0387078	0.1954892	1	0.3577768
947	2.74925		1	1.9894093	0.669336	3.20764	1.103202	2.2265574
948	2.9506741		1.4938456	2.0063851	1.3055562	4.0391163	2.7037609	1
949	2.6420546		1.7009678	3.5206361	2.2927544	3.771947	2.1433239	2.8451747
950	5.7276476		1.8351414	2.3223456	1.8315443	4.1614165	2.2690747	1
951	0.5380492		0.8301028	0.5358482	1.5482686	1	0.5595195	0.4884199
952	2.5987576		1	1	1.2668399	4.7613967	2.5250365	2.3512155
953	1.6047231		1.2106728	1.3420351	1.626317	3.0719243	2.47761	2.8070787
954	0.2849583		0.208604	0.6487813	0.3434108	1.3592846	0.453671	0.526374
955	0.4535197		0.3301146	0.5474921	1	0.3791899	0.3373067	1
956	1.3061444		4.5629095	1.7580667	1	5.2818972	0.8199982	1
957	2.307858		1.7360547	1.5622222	0.5528963	1	2.0151031	1
958	1.9252697		1.1859133	1.2460903	1	2.4145816	2.2888357	1.8072419
959	1.6768947		1	1	0.8349663	1.1976838	1.906121	1.9080247
960	1		1	1	1.2440359	1	1.6898506	1.7497478
961	2.0006793		1	1.4568917	1	1.2271074	2.0137339	2.7729049
962	2.0576487		1	1.6881061	1.2218219	1	1.1636143	2.6142331
963	1.9934235		0.8728217	1.5095663	0.7080523	2.1535561	1.8374937	1.7482384
964	5.6158476		1	1	1	1	1	4.4342521
965	2.0753314		1.3425012	1.5579999	0.6038397	0.7149851	2.8098918	1
966	2.2405953		1	1	0.5527253	1.8100047	1.2868243	1
967	0.5508823		0.397698	0.8198504	1	0.3349491	1	0.5479372
968	2.003947		1	1	1	1	1.967112	2.3003699
969	0.5833885		0.8059839	0.4977229	1.547653	0.5722503	0.6126908	0.3997234
970	3.1463945		1.4886807	2.3005206	0.7903588	1	1.4355826	2.6997817
971	2.1249707		1.7781719	1.656458	1	1	1.7658741	2.0712311
972	0.1543543		0.4879037	0.2916268	1	0.2743455	0.3556845	1
973	0.7381512		0.4836437	0.469543	0.7878449	0.5186028	1	0.4991702
974	0.6275619		0.794701	0.6991889	1.3000839	0.7056482	0.607073	0.4541157
975	1		0.4852949	1	0.7274875	0.5758883	1	0.4004647
976	0.5113803		0.7579369	0.4278543	0.8166428	0.5229682	1.2949546	0.48562
977	2.0403224		0.7597912	1	1.4631748	1.7063592	1	1.6725095
978	2.3032758		1.1420575	1.95038	1	1	1.8342049	1.5319154
979	3.6093236		1	1	1.8026182	1	3.653702	1
980	1.6648117		1.6307257	1	1.693985	2.044073	1.1157502	3.5266659

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
981	1		0.5994734	0.7375862	1	0.4245373	0.6131707	0.4594455
982	1		2.6458265	1.5139145	1.4137619	2.6798565	1.5607122	1
983	2.2694773		0.717409	1	1	0.7331699	1	1
984	2.8961183		1.6648419	1	1.1476469	2.2285464	1.8764371	3.1108005
985	0.4052097		0.0669818	0.0756065	1	1	0.0198598	0.342994
986	2.3987298		1	1	0.6253783	1.5140843	1.3177362	1.8960324
987	0.3583553		0.1528451	0.1947102	0.322847	0.464536	0.4103096	0.0456478
988	0.6215092		0.7698388	0.6189985	1.5797513	0.7466398	0.5732958	0.3988258
989	0.5522934		0.8896273	0.4073229	0.6572372	0.5474746	0.7370583	0.4676859
990	1.9027003		1	1	1.8653784	2.1456094	1.4232319	3.0108994
991	0.292474		0.5493886	0.5434544	1	1	0.3814303	0.5379827
992	0.6330798		0.8124197	0.5870184	1.4720501	2.507587	0.4674896	1
993	0.2450553		1	0.6080927	1	1	1	0.2890416
994	2.1824971		1	1	1.9167493	1	3.2812207	1
995	0.6295893		0.7095954	0.4733865	1.4666548	0.5253752	0.5596889	0.4117558
996	2.1969864		1	0.8586742	0.5343077	1	2.0326198	2.0036025
997	5.1772628		1	1	1	1	0.2243865	1
998	4.4504743		2.4055955	1.1163261	1	1	1.590749	3.313883
999	0.292125		1.6063896	0.494541	0.6590926	1	1	1
1000	1		0.8231189	0.4163869	0.6879674	0.5819874	0.8007312	0.5083623
1001	0.0655471		0.0825352	0.1066791	0.1208517	0.0628581	0.5539441	0.028058
1002	0.2929419		0.2885182	0.379919	0.5753839	0.3758838	0.8925494	0.2237709
1003	2.3009215		1.2366427	1.909378	1	1	2.9014842	1
1004	2.1590959		1.4446674	2.0841928	0.8609083	1.9011524	1	1.5822095
1005	0.5479859		0.7824294	0.6149407	1.4551801	0.6283733	0.6620652	0.4559968
1006	0.6569934		1	1	1	0.2562647	2.0465796	1
1007	0.1450636		0.20271	0.0861857	0.1483157	0.1495555	0.3674282	1
1008	0.6190881		0.8126271	0.6079634	1.4033731	0.7283737	0.6401869	0.4608815
1009	0.6102133		1	0.6208049	1.3861525	0.7463368	0.597376	0.4365334
1010	2.1118479		1.8106843	1.8060862	1.4971969	2.6606765	1.971163	3.5142779
1011	0.571142		1	0.5739525	1.3155602	0.6401517	0.6630815	0.2878845
1012	2.4106717		1.6284017	2.0295138	1.5335961	3.220852	1.8247338	1
1013	2.5442464		1.24112	2.9834081	1.8878916	1	1.7110372	2.9708356
1014	0.5807521		1	0.58155	1	0.6079556	1	0.4796521
1015	2.5636966		1	1.5528889	1	0.8289872	1.3343073	2.2649695
1016	0.5548778		0.8663904	0.6252688	1.4486134	1	0.4816469	0.4161723
1017	1.9559044		1	1.5784709	1	1	2.9906629	1
1018	0.6016728		1	0.2031573	1	0.5389392	1.7958262	0.5981331
1019	1.5849387		0.4488368	3.0701604	1.2755613	2.5784883	2.0553732	0.567462
1020	2.7527777		3.1978512	2.3631922	1	2.8584385	2.5337314	3.7335778
1021	2.7123027		1	1.9484129	1	1	1.6477596	2.6155308
1022	3.0505691		2.5438781	3.7335845	1	1	1.3571877	1
1023	0.5476517		1	0.5783457	1.2268324	0.614346	0.7439746	0.4078715
1024	0.4760668		0.3975632	0.5048306	0.4418519	1	1	1
1025	3.4627227		2.2883081	1	1.3672561	6.2985683	2.1396117	3.7102671
1026	2.2431649		1	1	0.5399253	2.2643735	1	2.499956
1027	1.9877867		1	1	1.4362409	1.6183176	3.6064026	2.5578857
1028	2.5350894		1.1883166	1.6486259	0.8589075	1.6410372	1.8182126	1
1029	2.3376609		1.4285283	1.623611	1.2161187	3.8253957	1.4483849	1.779251

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
1030	0.4650012		0.4399068	0.3072377	1	0.3059601	0.780589	0.5436781
1031	2.0115667		0.8131757	3.0558538	1.4244585	2.2069304	3.3115115	3.0333171
1032	0.1880265		0.4142046	0.577794	0.3938241	0.255079	0.4519207	0.1360529
1033	1.8295632		1.1841643	1.4773676	1	1	1.316974	2.2394273
1034	2.2301461		1.3314905	1	1	1	1.4384761	2.6107789
1035	2.7977085		2.9098045	2.3444349	1.1988041	1.1291987	1	1
1036	0.7217756		0.6995425	1	0.4855702	1	0.6850444	0.0814178
1037	0.7585001		0.6467171	0.7085735	0.7161496	0.7355003	1.2120712	1
1038	1.6688889		1.6956606	2.0302632	2.0508542	2.9634027	1.2117606	1.6590283
1039	5.3225641		3.5178131	2.6756307	2.8783817	7.1229019	3.473312	1
1040	2.7105352		1	1.8289147	1.1348127	1.5344378	1.6530668	1
1041	2.7505274		1	2.4844279	1	1.2519937	2.4797132	1
1042	2.5633996		1	1.4533075	1	0.6172109	1.8387359	2.1494726
1043	3.0743862		1.2156764	1.9834473	1	1	3.7832356	2.2579165
1044	2.2838329		1	1	1	0.6868055	1.8009641	2.5851604
1045	2.8261672		1	2.6727294	1.6843573	3.4360744	5.6869147	8.0036566
1046	0.2712191		0.3301978	0.2508642	0.4477602	1	0.3971544	0.0885156
1047	0.3465322		0.062077	0.0417913	0.0441202	0.2425005	0.0112638	0.3338971
1048	0.117964		0.0616287	0.0431674	0.0915836	0.256601	0.0383929	0.1071698
1049	2.5102177		2.3322599	1.399062	1	5.2855906	2.3613587	3.4420394
1050	2.2441452		1	1	1	1	2.7293938	1
1051	0.1451379		0.1946725	0.2824907	0.1372515	1	0.4462606	0.0867422
1052	0.5653419		0.6801898	0.6362611	1.1578048	0.6247379	0.59787	0.4108055
1053	0.6677991		0.6586606	0.5840351	0.8671929	0.6248584	1.1882732	0.5411208
1054	0.5287362		0.5841656	0.4968959	0.8539825	0.3542738	1.3214767	0.4879073
1055	0.6256607		0.704547	0.5920165	0.678998	0.4940403	1.1415666	0.5275264
1056	0.6682744		0.4904705	1	0.7751561	0.588268	1.133267	0.4812496
1057	0.6332729		0.6120709	0.6320919	0.6824096	0.5063061	1	0.5397314
1058	1		0.4681868	1	0.7300611	0.5625312	1	0.438111
1059	2.6369377		1	1.7115913	1	2.3984923	2.1327236	2.5193201
1060	0.3781546		0.5297881	0.603773	0.3092861	0.2813331	0.4132597	0.1941871
1061	2.611056		1.9786722	0.8034832	1	1.6753888	1.2806984	2.066952
1062	2.7239551		0.6524168	2.2347113	0.5868415	3.8695658	1.826484	1
1063	2.8189634		1.0920993	1	1.2230873	4.1170925	1.6703295	2.6150981
1064	2.6297487		1.3874547	2.4192606	0.4856814	2.2724667	1.5522291	2.2145169
1065	3.6905408		1.3882975	3.2927711	3.5620824	3.079015	2.1446649	1
1066	0.5888322		0.8797918	0.696457	1.4204825	0.5903149	0.5872697	0.4750537
1067	3.5879128		1	5.0171598	2.0079482	5.8728277	6.6658198	9.9204354
1068	2.3524844		1	1	1.3978068	1	3.1750475	3.3097198
1069	0.4288337		0.5856703	0.6316617	1	0.4711701	0.6235594	0.2479315
1070	2.9703694		1.5575707	1.673718	1.1254329	4.5584854	1.162104	2.3836211
1071	0.5578782		0.6024354	0.527851	0.7532328	0.6769103	1	0.4561811
1072	2.6351256		1.6222959	2.0320524	1.1853971	6.5051479	1.6267847	1.9051273
1073	2.6650399		1.5809723	1.9032264	1.4277333	1	2.8711651	4.245373
1074	1.1177763		0.5528167	0.5088557	1	0.7660871	0.4997989	0.6389648
1075	0.0204454		0.0390871	0.0500336	1	0.0246322	0.2986739	1
1076	2.0498285		4.1696988	1.9233008	1	1	2.3242644	1
1077	2.0345297		1	2.6871983	1.7148737	2.9912868	2.8561044	4.0464934
1078	2.0788145		1.3410266	1.6033259	1.088307	1	1.6864065	2.5914328

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
1079	2.6017653		1	1	1	1	2.6891801	1
1080	2.3410548		1	1	1	1	2.2793222	2.2886462
1081	0.3964092		0.6108585	0.203622	0.1554895	0.3378668	0.3289365	0.2165539
1082	2.0505488		1	1.7485195	0.6504481	1	1.2779742	1.7966427
1083	1.8234808		0.6684415	1.2649891	0.8065447	1.2113537	2.1290537	1.4426333
1084	4.6158051		2.3961531	2.477453	3.2675287	6.4815964	3.2769862	5.9345329
1085	0.3559194		0.4229957	0.1400496	0.046882	0.3079935	0.1002167	0.1144693
1086	1.3857203		2.0529625	2.3331856	1.2588452	2.6747989	1	1
1087	0.19197		1	1.0589709	0.1323948	0.35478	0.138299	0.077747
1088	0.3505723		0.6313921	0.4552746	1.7544879	0.6397363	1.2468647	0.2710894
1089	0.2192033		0.193771	0.2837185	0.2916551	0.2674557	0.6828566	0.119411
1090	2.8220678		1.2605339	1.8754126	1.7458006	2.9141502	1.806229	1
1091	1		0.3166258	0.4912814	0.3917635	0.5582246	0.3529038	0.4554844
1092	3.1628592		1	2.6884111	0.6933542	5.1204905	1.7308547	1
1093	2.4928321		1.4836748	2.567141	1.6465216	1.6018186	1.6909939	2.5328839
1094	2.6882554		1	1	1	1.7381409	1	1
1095	0.5997567		0.7767831	0.5650551	1.3210581	0.6774698	0.6790455	0.4431194
1096	2.4730477		1.5658897	2.8091757	0.3218637	1.2269083	1.7561912	1
1097	0.6187911		0.7181084	0.5820852	1.5136223	0.7356912	0.6579577	0.4483148
1098	2.4661781		1.6420825	2.5317705	1.8076886	1	3.2451144	2.7172314
1099	3.2634078		1.217686	2.0459534	0.7620739	1.752243	2.2464907	2.1409716
1100	2.0347079		1	1	1	1	1.8046481	1.907242
1101	3.3952521		1.7543365	1.6537753	1.3347559	3.6809239	1.8925141	1
1102	2.2351145		1.30265	1.7211528	1	1	2.9731179	1
1103	2.8170697		1	1	1	1	2.8708687	4.25887
1104	2.1622151		2.3899848	1.5320532	1	2.1772655	1.3954112	1.6833026
1105	1		0.4101277	0.6064881	0.410754	0.5232457	0.4564799	0.4858439
1106	2.1493745		0.9121803	1.6221004	0.51418	1	1.7101621	1.5020165
1107	2.3935163		1.6402693	2.7699855	0.001	1	2.5056284	1
1108	3.0175208		1	1.274712	1.9790563	2.455455	2.5002788	6.2130422
1109	0.5599947		0.2773269	0.3871582	0.1847149	0.5360727	1.2484738	0.1887637
1110	2.9057952		1.3765686	2.0063288	0.6748339	1	1.7912953	2.1771833
1111	1.8110561		1	1.7074211	2.1129389	1	4.1943639	2.0959482
1112	1.8674388		1	1	1.6495998	1.9128054	2.9200596	1
1113	3.4906393		1.7528874	1	1	1	2.4725286	2.8990247
1114	1		0.316483	0.5289604	0.4411422	0.7241021	0.4208677	0.5419445
1115	0.6771863		1	0.5251095	1	0.262573	1.925148	1
1116	2.5918731		1	1.7896266	1	1	2.5931133	2.2724586
1117	0.585765		0.8185003	0.6215336	1.4323676	0.7178066	0.7246371	0.4630796
1118	0.4552204		0.3907071	0.5345739	0.2494245	0.5228637	0.4484908	0.3993175
1119	0.1363671		0.1429161	0.230405	0.4369097	1	0.4971735	0.0819498
1120	2.8195947		1.3572825	1	1.1353942	1	1.3916848	2.977663
1121	2.3873002		1.3141357	2.0320524	1	1	2.2179783	1
1122	2.665077		1	1	0.5314604	1	0.6145399	2.7782659
1123	8.16556		5.7653996	3.9704202	2.7181039	3.1573229	1.3929128	7.090348
1124	2.5236599		1	1.5529564	1	1.719166	1.9047518	4.9406832
1125	3.0223555		1	2.2627964	1.2859501	3.3106641	1.5567883	1.9369696
1126	2.0533412		1.2917751	2.0583257	1.5657885	2.2413217	2.7484491	4.7003336
1127	2.2881924		1.4337909	1.9877496	1.4885525	3.1897429	2.1002026	3.4979469

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
1128	2.984569		1.6522498	2.8568935	2.5693863	5.4316037	2.2814677	3.4174821
1129	2.2617834		1.2989669	1.9524043	0.6157847	2.0160272	1	1
1130	5.3023712		5.0125028	3.4063799	4.6657288	6.1908123	5.5597524	1
1131	2.8257365		1.5976072	1	1	1.4528742	1.5317341	1
1132	0.6700048		0.6739101	0.6845447	1.3945747	0.6573218	0.4713853	0.4538028
1133	2.2075767		1.3048814	1.3126338	1.2427533	1.8667738	2.4383703	2.7581961
1134	2.2705171		1	1	1	1	2.2314723	1
1135	2.8913133		1	1	0.8151037	1.3817576	1.8401615	2.6013267
1136	2.0597875		0.9192932	1.6558057	1	1.6858511	1.9828502	2.6342735
1137	2.554146		1	1.6036856	1	1.6658709	2.280649	1.8026665
1138	2.1614353		1	2.6761316	1	1	3.3444136	3.0581996
1139	2.2633058		1.2705791	1.5981638	1	1.4325901	1.6145752	2.0700377
1140	2.0276155		1.6221482	1.5692875	1	2.4964528	2.6922713	2.9943591
1141	2.1123232		1	1.5809846	0.6629574	1.2445272	2.9131573	1
1142	2.7793277		1	1.7842213	1	0.7596203	2.0905196	2.1866402
1143	0.6105475		0.645705	1	0.7350546	0.5598048	1	0.5525378
1144	0.7136435		0.5741999	0.5953002	0.7908547	0.5627592	1	0.6306643
1145	2.2212194		1	1	1	1	2.603629	2.1313874
1146	2.4698839		1	1.3475252	1.5687298	2.3755443	2.2409152	2.1297793
1147	1.8541675		1	1.5694942	0.5791632	1.2929195	1	1.7365993
1148	2.7142559		1.6644377	1.7106901	1	1	1.1853091	2.3969948
1149	3.0402759		1.64843	1	1.3853061	4.0908501	1.2375488	3.2086761
1150	0.2034663		0.0573729	0.259177	0.1145757	0.2378235	0.2651366	0.0967313
1151	3.0070939		1.4975856	2.2828141	0.7341312	1.4130405	1.5849054	2.4830697
1152	5.3760281		1	3.3410991	3.0272446	10.092099	6.3356835	1
1153	2.7702599		2.2290187	1.6681714	1.1702628	5.0894618	2.9008208	3.7580766
1154	1.9323918		1	1.5511029	0.5959049	1.7198614	1.7536505	2.0906258
1155	1.8708253		1.9757773	1	1.905762	1.908459	1.689159	3.8131958
1156	0.5746548		0.8873069	0.6345327	1.508475	0.6976448	0.6459458	0.4288286
1157	3.7494411		1.8637693	1.9621586	1.7026381	1	3.512947	1
1158	0.5868641		0.6550493	0.5999419	1	0.5552314	1.0837797	0.5541999
1159	0.647985		0.5546986	0.4849749	0.794899	0.5536093	1.1535079	0.527171
1160	1		0.5218991	0.5390487	0.3192217	0.3046543	0.6644224	0.2435177
1161	0.6678883		1	0.594083	0.6065331	0.5365885	1	0.5196428
1162	0.6459055		1	0.4456576	1	0.5917526	1.6794761	0.6763837
1163	0.7179732		0.7051267	1	0.7719839	0.7088687	1.1604525	0.5560598
1164	2.5588916		1	1	1	1	1.3131206	1
1165	2.0241028		1	1	1	1.8770234	1.8754914	1
1166	5.0212896		1.4298805	2.1734872	1	2.8286074	1.483009	2.5345084
1167	1.9982211		0.8580081	1	1.4310594	1.521194	2.9141595	3.5737072
1168	2.1367641		1.1830954	1	1	2.3962113	1.4175859	3.1642289
1169	0.5630174		0.0442745	0.0423871	0.1616544	0.5174117	0.0239532	0.0224628
1170	0.410646		0.740703	0.4014618	1.2804009	0.5516252	1.3525157	0.2666239
1171	0.6064703		0.7629261	0.5974846	1.4791213	1	0.6783257	0.5142132
1172	0.0757958		0.2478685	0.2044958	1	1	0.1458929	0.1109576
1173	1.3940604		0.6915956	1.9691315	0.6103039	1.8394667	1.5503518	1
1174	4.8692895		2.8029219	2.5666801	2.9425356	5.0114797	2.5061506	6.7419696
1175	0.301334		0.0497611	0.0913081	0.0622899	0.1848528	0.0307849	0.4168219
1176	0.606656		0.4090022	0.5394433	0.7180307	0.4242938	1.262857	0.5203887

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
1177	0.5774324		0.4192214	0.5676849	0.75148	0.5211014	1.1062508	0.500007
1178	0.5576034		1	0.4791106	1	0.4376437	1.6298617	0.3038051
1179	2.0812132		0.712016	1.2856714	0.7120539	1.4316253	1.1163713	1.8693498
1180	2.1915278		1	1.5261652	0.6255835	1.4324996	2.2893862	2.1954475
1181	2.6735211		1.4658374	2.0526513	1	2.0752497	1.7665657	2.3095792
1182	1.9778945		1	1.728896	1.2104327	1	1.9046248	2.8243321
1183	2.045833		1	1.1966497	1	1	1.8880114	1
1184	2.0819633		1	1.4587946	1	1	2.4201054	1
1185	2.0026325		1.2726837	1.7546573	0.7680763	2.1688665	1.5656243	2.2375887
1186	1.5553808		1	1.7767263	1	1	3.7352304	2.8261499
1187	1.9133648		1.1993179	2.1009163	0.7971393	1.5798346	1.9132067	2.3623191
1188	2.8792897		1.2177692	1.6117494	1.5167347	2.6068451	1.504111	4.8266326
1189	0.637818		1	0.6410025	1.4822679	0.7716484	1	0.465518
1190	0.288226		0.3942256	0.6352319	0.6713026	1.0675355	0.2607327	0.486394
1191	2.3056523		1.6871865	0.8562775	0.8583261	2.0749965	1.166282	2.0120697
1192	0.0769543		0.1604845	0.1499065	0.3125438	0.1018609	0.4832702	0.0609222
1193	0.6253339		0.7972031	0.5370601	1.5376747	0.6216552	0.6622063	0.4172004
1194	0.2726376		0.6718021	0.438476	1	0.4006244	1	0.2409953
1195	2.6101648		1	1	0.7544299	1.5930042	1.6640201	2.6664454
1196	0.5066569		0.6002284	0.5847662	0.7241015	0.4545693	1	0.3300942
1197	0.6732428		0.6172337	1	0.5354363	1	0.8486375	0.0939274
1198	0.5310459		0.5202449	0.5477019	0.6305085	0.5017874	1	0.4018656
1199	0.1293267		0.0665658	0.0702165	0.0747991	0.2546007	0.0474688	0.0814249
1200	0.5251269		0.7148772	0.6031209	0.7976181	0.6004116	1	0.4637018
1201	2.4935079		1.1760237	1	1	1	1.3336862	2.7786566
1202	2.6457828		1.4108003	1.8790115	1.4058442	2.6739579	1	2.4689526
1203	0.387475		1	0.3111998	0.1406203	0.275061	1	0.2850901
1204	2.5816541		0.8672756	3.0926091	1.9964222	1.5660513	2.8247832	2.7335838
1205	1.7779409		1.3565801	1.8751174	1.2058069	2.3826995	1.2565335	2.8649766
1206	2.0275932		1	2.3803482	1.5299793	2.3012934	2.5457997	3.2546578
1207	2.4472551		1	1	0.796079	1.6189338	1.7920857	2.8072782
1208	0.5318331		1	1	0.2761703	0.4001837	0.2773602	4.7469135
1209	2.4145113		1.4163379	2.7798964	0.7490345	2.2676945	1.1640377	1.5866244
1210	2.5680338		1.3057799	2.5354524	1.6145003	1.5508078	2.1360971	2.5152312
1211	2.2697447		0.769254	1.4999995	0.6344417	1.3431557	2.4351379	1.786369
1212	0.5415174		0.738414	0.4994164	1.4444237	0.6656442	1	0.4336377
1213	0.6887644		0.3233433	1	1	0.839462	1	1
1214	2.9316174		1	1.7841768	1	2.4625656	2.492826	2.4916806
1215	0.6483415		0.8025583	0.6430671	1.4129068	1	0.616022	0.4645931
1216	0.6361693		0.433889	1	1	1	1	1.4575854
1217	2.6678397		1	1.4136716	1.6609804	2.954266	3.6669701	1
1218	2.0900657		6.1949894	1.8191865	2.6441256	1.5977931	1.6272222	2.4763013
1219	0.3213189		0.0370038	0.1161782	0.0892066	0.0560986	0.1799807	0.3181244
1220	1.6984244		0.8522487	1	1.5454043	2.8411291	1.125899	1
1221	1		1	1.8489259	0.7737367	2.0057443	1.9763432	1.9756064
1222	0.3360013		0.0392586	0.0318242	0.0348943	0.2144608	0.0174744	0.3118447
1223	0.8138431		1	2.1532557	2.4650882	8.9057254	3.497364	1.3925105
1224	2.8696054		0.8579916	1.415323	0.6640433	2.1820841	1	2.2144549
1225	1.4459574		1	1	1.5662074	1.957215	1.4583219	1.5400345

Table 4

SEQ ID	Patient ID							
NO	577	695	784	786	787	789	790	791
1226	0.0282805		0.0396533	0.0843902	1	1	0.1876028	0.001
1227	0.3985852		0.3878372	0.3212633	0.2921596	0.3241277	0.7916975	0.1996784
1228	3.8147506		0.7640313	1	1	2.204356	1.3367915	2.0643067
1229	2.0492195		0.6172422	1	0.5573425	1	1.4889374	1
1230	2.7489678		1	3.1465191	2.3641504	4.7481042	2.7522037	1
1231	2.0061155		1.5590693	1	1.281521	4.0221613	1.4594511	2.4728923
1232	0.2207926		0.3104821	0.4512565	0.2406261	0.3527564	0.6121968	0.1799727
1233	2.3294396		0.810602	1	0.5252442	1.9864178	1	1.7032543
1234	6.9069532		6.8176633	9.6685344	2.7992389	5.4394208	2.4543767	1
1235	2.4573404		1	1	1	1.7227358	2.234507	4.287053
1236	0.5185915		0.2600192	0.4281003	0.3410509	0.6232784	0.5451081	0.5023428
1237	2.1036416		1.6110354	1	1	2.3888909	1.2326226	2.7979365
1238	0.3793206		0.5673213	0.5477438	1	0.4053967	1	0.2238539
1239	2.4273964		1.5688942	1.8622206	1	1	2.1759155	2.6573012
1240	1.8502462		1	1.3660935	1	1	2.107133	1.9328958
1241	2.8423052		1	1.6337045	1	1	2.1727114	2.3332382
1242	1.5949423		1	1.4285895	1	1	3.5983147	2.1707253
1243	2.1058175		1	1.7404727	1.1808739	1.5168864	2.207999	2.4725828
1244	1.631897		1	1.817013	1	1	2.3648734	2.4484544
1245	1		1	1.7199104	1	1	3.2913129	2.2808527
1246	3.2729436		1	1.7853354	1	1	2.5287347	2.0144287
1247	1.9504607		1	1	0.5174377	1.5765396	1.7803138	1.6969642
1248	1.94016		1	1	0.6756206	3.1188207	2.2546774	1
1249	2.7688785		1	1	0.4416039	1	1.9919121	2.4131689
1250	0.6180855		0.7168263	0.6366067	1.2940559	0.6712929	0.710028	0.4535085
1251	0.5390814		0.5405455	0.4953018	0.6693788	0.6506703	1	0.4969449
1252	0.472309		0.519287	0.5839779	0.4659213	0.3876268	0.4307058	0.2780416
1253	1.6408609		1.7922963	1	1.6250686	1	2.1599656	1
1254	1.6200813		1	1.288406	1	1	2.160883	2.1116276
1255	2.2598376		1	1.9023147	1	1.2296804	1.3903157	2.1471952
1256	2.1315804		1	1	0.5816856	1	2.113019	2.396704
1257	0.7616416		1	0.783517	1	1	1	1
1258	1.7459843		1	1	1.9009652	3.1984408	4.4103237	3.9778604
1259	0.4836865		0.6436672	0.5256771	0.852204	0.423657	0.8909544	0.4567056
1260	0.5318851		1	0.6295144	1	0.6514492	1	0.4434376
1261	0.5768605		0.7809212	0.5459366	1.5938082	0.6549361	0.5835856	0.420922
1262	1.554304		1.2096541	1.6542346	1	1.4908581	1.8278108	2.1017447
1263	2.9844502		2.3128325	1	1.1878339	4.7474415	2.411947	3.9080355
1264	0.7115269		0.7028746	0.4134797	1	0.5446127	1.6240464	0.6800268
1265	0.4293907		1	0.5730553	1	0.5041338	1.3906968	0.393812
1266	0.6107109		0.7324971	0.5217213	1	0.6537655	1.4712371	0.6650632
1267	2.4746147		3.4774605	1	1	1	1.4259702	1
1268	3.2482279		1.941264	1	1.1837468	5.3240598	3.2926821	2.7999188
1269	2.5343913		1	2.495966	2.1707569	1	3.308632	3.7582553
1270	2.3796211		0.8704604	2.2751122	1.1937423	1	1.9952574	2.2316498
1271	8.5877617		10.736937	5.7188155	5.3043688	17.551815	3.9248375	1
1272	0.6148921		0.5894897	0.6128949	0.8345559	0.6179173	1	0.5279386
1273	1.8378587		1	1.5092157	1.2831883	2.1879088	1.7285116	1
1274	0.169965		1	1	0.0832726	0.3719239	0.1310439	1

Table 4

SEQ ID NO	Patient ID							
	577	695	784	786	787	789	790	791
1275	0.4009617		1	1	0.6567669	1	1.5050002	1
1276	0.3420688		0.4796433	1	1	0.6024587	1.3030566	0.4592052
1277	2.7565504		1	1	1	1.2747496	1.4495141	2.5515273
1278	2.4510798		1	1.7428492	1	2.0748067	2.4708489	3.429196
1279	2.9522411		1	2.0426209	1	1	3.0432978	2.5416809
1280	1		0.2309883	0.6367088	1	1	1.6005872	0.2240316
1281	1.1728148		1	1	1	2.1280917	1.1722527	2.3438941
1282	2.2549881		1.7139538	2.8205933	1.8946978	2.0707018	4.0113908	4.9586617
1283	0.6492104		0.8236818	0.4155107	1.4565739	0.6454845	0.5627377	0.4541574
1284	2.4556917		1	1	0.7599278	1.5475622	2.0385058	2.9433975
1285	1.714555		1	1.4382767	1	1.778305	1.5949412	1.6677451
1286	1.4244723		1	1.9077473	0.6572628	1.5302615	1.2866691	1
1287	1		1.7120443	1	2.6516586	3.9952335	2.5109215	3.1797598
1288	1.7947028		0.6724407	1	1.7172593	2.8837623	1.7093717	3.2971553
1289	4.4914765		2.6036256	1.8943993	1.4860301	3.4282824	2.3912684	1
1290	3.0172832		1.9061811	1	1	1	3.5801204	2.9844092
1291	2.8795199		1.8328017	2.1388873	1	2.1274262	2.126033	2.6007275
1292	0.3386377		0.043576	0.0974455	0.1111641	0.2744607	0.1498733	0.4512816
1293	0.5986279		0.7873298	0.6070856	1.5131435	0.5984837	0.7231691	0.4408775
1294	1.5229935		1	1.1870512	1	1.2566654	2.0200292	2.2859984
1295	0.599066		0.7152099	0.6814838	1.4789332	0.5251805	0.6891378	0.5147155
1296	0.2572794		1	0.3901079	1	1	1	0.3956434
1297	0.1886057		0.1745609	1	0.1698168	0.6358379	0.3770405	0.123242
1298	1.4231652		2.2257345	1	1	2.0976454	1	1.7675525
1299	2.6171013		1	1	1	1	3.3001348	4.7177287
1300	0.5915132		1	0.6325617	1.5500856	0.5038463	0.6739924	0.4088124
1301	2.163693		2.398539	1.7395832	2.1666398	3.9299195	1.6536173	2.4865069
1302	0.6737256		1	1	1	0.2893562	1	1
1303	0.2386164		0.5963568	0.3116679	0.3196971	0.2922111	1	0.2997096

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
1	2.7545293	1	2.5044075				
2	0.5461727	1	1.1739522				
3	0.5476473	1	1				
4	1	0.2650594	0.3620241				
5	1	0.5119583	0.7874696				
6	1	0.5949988	1				
7	1.2866816	2.2515809	1.4073896				
8	2.3662774	3.2537102	3.1788697				
9	1	0.3589457	0.6256837				
10	0.3834411	0.3620441	0.6984212				
11	0.2154419	0.3647831	0.239354				
12	2.4379808	3.2873349	1.9072563				
13	1	1	0.4463772				
14	1	3.5529666	1.4072825				
15	0.604465	1	0.671821				
16	2.5501204	3.2380293	2.8948333				
17	1	1	2.5760741				
18	3.2437827	2.2405637	1.3111795				
19	0.6359832	0.5206266	0.5215846				
20	0.7037088	1	1				
21	1	1	1.7708313				
22	1.4588616	3.6413274	1.7687995				
23	1.3210761	1.9898344	1.6857127				
24	1.1788999	2.539411	1.530618				
25	1	0.5552093	0.7677945				
26	1.653853	1	1				
27	1	0.5932704	1				
28	1	2.1887875	0.3345573				
29	2.6490767	4.4547482	3.003886				
30	2.6030196	5.9983918	3.9685578				
31	9.2299382	5.9423645	2.2751731				
32	4.4682224	2.1035442	0.6593283				
33	2.1493872	3.2590202	1.5157567				
34	4.1344083	4.1226474	2.0889151				
35	3.8839179	4.6459045	2.3288034				
36	2.6142523	2.9561547	1.5390222				
37	3.005484	2.9851234	1.8079535				
38	1	2.5970207	1.5197726				
39	0.4133848	1	0.4567507				
40	3.841673	2.5427343	2.9826969				
41	0.7426844	0.8146166	1.613346				
42	1.6556789	2.6012493	2.9448316				
43	1	0.617056	1				
44	0.4962052	1	1				
45	1.814678	1.6157035	1.8058357				
46	4.3095076	3.1071758	1.6976629				
47	4.0298642	3.7256802	2.6884802				
48	1	0.3158893	1				
49	2.6156726	2.478136	2.158312				

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
50	1	0.5810995	0.5157391				
51	2.0105479	2.207336	2.8986888				
52	1	0.6408001	1				
53	1	1	1				
54	2.0600351	1.9375465	2.1373654				
55	1.1257851	0.7457003	1				
56	2.3023159	1.9023743	1.5590942				
57	0.7868121	1.2311321	0.4463772				
58	0.6738655	0.6514556	1				
59	1.5259799	3.1003418	1.6758629				
60	2.0723555	1	1.4845567				
61	2.7998016	5.239467	2.2220206				
62	2.221524	1	1				
63	3.164231	2.3363902	1				
64	2.9656331	2.5662428	1				
65	1.1636339	2.748852	2.9469426				
66	0.9069971	0.5554796	0.92843				
67	2.8160915	3.2006912	2.0345815				
68	2.3598678	2.3688005	2.4140452				
69	2.8411056	2.8068062	2.2002179				
70	0.3852237	1	1				
71	1.7521149	2.1319907	2.6072063				
72	0.3827256	0.4131698	0.3373639				
73	1	1	2.2641045				
74	3.7313557	3.3169109	1.4820591				
75	1.7695015	2.5777448	1.8783533				
76	2.2879203	2.5948647	1.4256927				
77	1	0.6651868	1				
78	1	0.5160078	1				
79	1	0.5869589	1.4371561				
80	3.1260608	3.2222099	3.7659794				
81	1	5.408571	5.0035654				
82	1.6240221	4.9823776	1.3441424				
83	5.3934271	1	2.12454				
84	1	2.4087223	2.8721366				
85	0.6987314	0.2208448	0.1697523				
86	2.0191126	2.7870024	2.8897461				
87	2.0855372	4.4926088	2.6338398				
88	1.5936642	2.4017214	2.2386921				
89	3.1245659	2.2320767	1.4066137				
90	1	2.2061167	2.3618055				
91	1	2.4924843	2.0641504				
92	1	4.5933631	2.2370002				
93	1	0.5166382	1				
94	1.9735484	2.8235626	1.8385442				
95	2.1346911	4.8509262	8.3660518				
96	2.5728566	2.7139841	2.0797563				
97	1	1	1				
98	2.7193198	2.2359644	3.8406461				

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
99	1.2283202	0.6240352	1				
100	1	0.6153395	1				
101	1.2371745	3.7971122	2.9804144				
102	1	2.5906568	2.036037				
103	0.4878614	0.5220519	0.5875074				
104	1	0.4947949	1				
105	2.8965207	1	1				
106	3.2385003	1	0.7217671				
107	5.3737835	2.7508505	1.130323				
108	2.3856544	2.5666093	1				
109	1.362962	2.5075245	2.1907727				
110	2.7683669	2.7799971	2.5010217				
111	2.58456	1	1				
112	8.2800432	6.748402	1				
113	1	1	1				
114	1	0.5467682	1				
115	1.3938005	3.1519961	2.8508911				
116	1	0.5785322	0.8297756				
117	1	0.662154	0.6950101				
118	1	0.355833	0.3806683				
119	1	0.4645694	0.6082288				
120	1	0.4878181	0.5877594				
121	1.8396026	2.1488141	1.6730969				
122	0.3246765	0.3363954	0.5483425				
123	4.0114856	2.7138817	3.9728191				
124	1	3.8454521	5.8142318				
125	1	2.6341318	3.1315162				
126	6.6087211	3.3015259	1				
127	1	0.5190666	1				
128	1	0.5226516	1				
129	1	1	1.7223995				
130	1	1	1				
131	1	3.308972	2.0268908				
132	1.3527234	2.4505974	4.1915559				
133	3.6320939	2.0491613	2.053952				
134	1	0.6004705	0.5716494				
135	1	0.5784345	1				
136	0.2106747	1	0.7577852				
137	1	1	2.4177523				
138	1	0.6172679	0.4739586				
139	1.4582337	4.3470024	5.1287586				
140	1.9360406	1.9698788	3.1800992				
141	2.528551	3.0220155	1.6928083				
142	2.9953477	3.7247151	1.8384072				
143	2.8119365	1	1.6772304				
144	0.5659571	2.869202	3.141087				
145	2.1987241	3.164901	2.4173574				
146	2.1160749	2.8197971	2.2541041				
147	1.3816121	2.0922796	1.6864042				

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
148	2.8976217	2.9282199	1.2899231				
149	1	0.4792108	1				
150	0.6573248	0.806438	0.7208811				
151	1	2.6434301	4.4114539				
152	3.3353235	2.4566268	1.5230257				
153	2.2468418	2.4783069	2.3318857				
154	5.1147843	3.867588	2.4904159				
155	1	1.9115807	1.7936234				
156	1.3092589	2.0807133	2.1467907				
157	1.2650098	2.5872072	1.7898923				
158	6.6495542	1	1.7811464				
159	1	0.6739735	1				
160	1	0.459398	1				
161	1	0.4725301	1				
162	0.6338196	1	0.5168378				
163	1	1	1.7460119				
164	2.1127516	2.7333838	4.4636101				
165	0.6906391	0.560058	0.515405				
166	1	4.0602466	3.641979				
167	0.2569272	0.5302497	0.2423993				
168	1.1246501	1	2.879065				
169	2.4773308	2.5955205	1				
170	0.8197313	2.7084627	2.3772079				
171	1.67355	3.4716402	2.2540354				
172	1.3558511	2.6806893	1.6380239				
173	2.8408409	3.2460706	2.3976971				
174	3.8283288	2.1964109	1				
175	1.3578838	3.3968402	1.9734833				
176	3.3251397	5.3177547	1.8364909				
177	0.3658458	0.2467284	0.3070751				
178	1	3.0234135	1.7363022				
179	3.6810558	2.6409054	3.0965279				
180	3.0505858	2.3101875	1				
181	1.8352108	2.6368371	2.1748047				
182	2.8330108	2.1362988	1				
183	2.0749879	2.1584917	4.0781333				
184	0.486608	1	2.3905708				
185	1.7606805	3.254152	2.0102616				
186	1	2.3123424	2.6883825				
187	2.1332972	1.9035329	1				
188	3.0143974	3.2405105	2.4248035				
189	3.058337	2.5670675	1				
190	0.3021257	1	0.8138057				
191	1.9555756	1.9872492	1.9123825				
192	1	0.4860864	0.8056718				
193	4.2208239	2.1485573	1.4125748				
194	1	0.404838	0.2867096				
195	1	0.5789562	1				
196	1.4311985	3.8707116	2.7153137				

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
197	1	0.694489	1.6159532				
198	0.7475824	2.3078144	2.4615857				
199	1.1790671	1.6236218	2.141076				
200	1	1	2.6803973				
201	2.8636067	3.7122135	3.0082823				
202	1.1848397	2.6809892	2.2949302				
203	2.3835409	2.0718386	2.7182062				
204	2.1357377	1.6645225	2.4458825				
205	1.6405947	2.6622251	1				
206	2.7126269	3.0537221	1.6209088				
207	3.7489413	2.2002426	1.4398126				
208	3.8206539	3.0111299	7.1247572				
209	0.7417329	1	0.237383				
210	1	0.5728116	1.3711408				
211	2.4541359	2.0651134	2.4087802				
212	1.2409001	2.6342284	2.5012753				
213	1	0.4745106	1				
214	2.7363201	1	1.5275531				
215	2.9535683	3.8526648	2.4796504				
216	1	0.577533	1				
217	1.4322741	2.0972236	2.2409294				
218	2.3237798	1	1				
219	2.5015154	1	1				
220	1.4260447	2.2800015	1.8683464				
221	1	0.5085145	0.7873355				
222	1	0.5327133	0.7785547				
223	1	0.4544294	0.8266332				
224	1	0.4602892	0.7002851				
225	1	0.6078063	1				
226	2.0907805	1	2.5390382				
227	2.3067281	2.0953287	1.5941945				
228	2.2866621	2.4892911	1				
229	0.772846	2.7195281	1.9327621				
230	5.0309584	2.7250948	1.6346226				
231	1	0.4897122	1				
232	1	2.2625646	3.467235				
233	1	3.6768988	2.5710618				
234	1	1	2.7202047				
235	2.7126269	0.2981286	0.1705119				
236	3.6773564	1.7768346	1				
237	3.348509	1.6219734	1				
238	0.060452	0.2965642	0.3986045				
239	1	0.3999284	1				
240	0.3305363	0.3861211	0.4342997				
241	0.3757086	0.4804438	0.4694692				
242	2.0616136	2.3246047	5.2622478				
243	2.408391	1.7822969	1.5458382				
244	1.094718	3.4908578	2.3521958				
245	2.3004053	2.7763469	1.9246184				

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
246	2.9312329	1.7432704	1				
247	5.7027565	3.0043347	2.156488				
248	1.6132533	2.4831863	2.3084613				
249	0.7808548	0.5228949	1				
250	3.7070113	1.8772385	0.7105806				
251	1.5070001	2.0777066	1				
252	1	1	10.069088				
253	1	1.7794294	2.0255592				
254	1	0.3757519	1				
255	0.6441925	0.4534176	0.7110039				
256	1	1	1.9339239				
257	1	0.4029749	1				
258	1.5688204	2.0633352	2.4718643				
259	1.4959594	2.3956388	2.59005				
260	0.3731097	0.2893872	0.1686977				
261	2.7348476	1.7462345	1				
262	1	1	2.3885645				
263	2.644329	6.067752	5.0263367				
264	1.8000023	2.3246799	2.819713				
265	0.9315091	0.4289653	1				
266	0.0139634	0.0387452	0.0513245				
267	3.3421474	1.5591812	0.7052373				
268	2.0083408	3.4123185	2.576702				
269	3.8227295	3.1125569	1.2928529				
270	2.2989022	2.0845142	1.4964151				
271	1	0.374014	1				
272	1	0.4872098	1				
273	4.583062	2.4216231	1.8308565				
274	0.2141753	0.5192278	0.5332478				
275	1	0.5969503	1				
276	1	1	1				
277	1	1	3.5094962				
278	1.5155387	1	3.3574287				
279	2.7236919	3.2981936	2.6916095				
280	0.2853299	1	0.2028241				
281	1	0.3841835	1				
282	2.1926634	1.3864868	1.7181603				
283	0.8706047	1.4031566	2.9657219				
284	1	1.6844125	1.177539				
285	0.3727782	1	0.3651918				
286	1.6763101	1.9318194	0.8285956				
287	1.7239492	1	2.2554782				
288	2.0235343	2.68269	2.2778344				
289	3.2733814	1.643179	1.289204				
290	3.1137179	1.5854868	1.2192537				
291	2.8820112	2.0692743	1.9314				
292	1.3018617	1.9963546	3.2771359				
293	1	0.4610774	1				
294	1	1	1.9231178				

Table 4

SEQ ID	Patient ID						
NO	888	889	890	891	892	893	989
295	2.158007	1	3.0048619				
296	0.9068263	0.4116816	0.8234505				
297	0.803601	0.5114521	1	0.5584997	1	0.5523573	1
298	1.6720511	2.9073776	2.9825767	1.4213249	1	2.1417614	1
299	0.8178113	0.4902933	1	0.5891629	1	0.5764809	1
300	1.649737	1.9448849	2.7783183	1	1.402009	1.6662767	1.453829
301	1	1	2.7423833	1.6520824	1	0.5278236	1.9554773
302	1	1	3.7400924	1.6556462	1	1	1.2681309
303	0.4684353	1	0.5768994	0.3859588	0.515219	0.4235104	0.5235551
304	0.6182653	0.4726512	0.459308	15.001062	1	1.5662752	2.5379114
305	1	1	2.595774	1	1.1968086	2.4492101	1
306	0.1268552	0.1716953	0.7718227	0.600318	0.3284212	0.0368321	0.0398228
307	1.8753929	1	3.0709549	2.4346597	1	2.2318752	1.8509895
308	1	1	2.6149455	1	0.3515307	0.3180026	0.4418838
309	0.2252596	0.2380472	0.1877777	0.1855121	1	0.2600743	0.2989196
310	0.6170684	5.2147632	2.783125	0.4715223	1.441922	0.5316242	0.19744
311	0.6479524	1.5604334	0.6500894	0.4021552	0.5915888	0.4425841	0.3219423
312	5.9777767	2.940316	2.6600664	1.5411983	1.6949147	1.67415	1.1549701
313	1	1	3.2622549	2.3619334	1	1.8408842	1.7743521
314	1.7236244	1	1.6128889	0.8197787	1.6172424	0.1998911	1
315	0.0361824	0.2667886	0.3345937	0.133189	0.2944145	0.123253	0.3202927
316	1.2595233	1.9519611	1.5038966	1	0.6270527	1	1
317	1.5093871	1	1.9632732	1.6706495	1.2087374	1.3094397	2.1920366
318	1	0.1464966	3.7769359	1	1.4379371	0.3104181	1.332056
319	3.2464305	2.08391	1.935492	1.3706155	1.4458036	1.4679488	1
320	0.0879167	0.3341719	0.0326559	0.0230572	1	0.0735443	0.0756063
321	0.90522	0.5391494	0.6014608	0.455519	0.7888324	0.6186123	1
322	0.7868527	4.7184777	2.1758278	1.3756624	1	1.8481906	2.3705538
323	0.9087	0.5082844	1	0.6414018	1	0.5786967	1
324	1	1	1	0.6297941	1	0.5581599	0.4901248
325	0.2649621	1	0.4421867	0.5677916	0.5571437	0.4684252	0.3766729
326	0.9085646	0.5146153	1	0.6801129	1	0.6210698	1
327	1	1	5.0427783	1	1	1.5173177	1.743457
328	0.5407775	1	1	0.3169082	0.7171954	0.2692227	1.7448035
329	0.6900609	0.530743	0.3210383	0.4859567	0.659731	0.5812558	0.4607702
330	2.0552679	1	1.2338096	1	1.0869867	1.7205879	1
331	1	1	2.6011575	1	1.707153	1.5764636	1
332	1	1	2.2670178	1.6604741	0.6789073	0.7669683	0.8777875
333	1	1	3.8105839	1	2.5672612	1	1.7544589
334	0.7957992	0.4860569	0.7388468	0.6208127	0.7248813	0.5907792	1
335	0.5409821	0.5620898	0.5490831	0.4737273	0.5660806	0.4701005	0.6378682
336	3.3030481	1	13.432153	0.7687199	1	1	1
337	0.8038552	0.4937719	1	0.6523045	1	0.5854316	1
338	0.5575236	6.4895041	2.6687005	0.4490816	1.554078	0.5508219	0.2229737
339	1	3.2295924	2.6820489	1	1	1.6541008	1.1745358
340	1	1	6.3967608	2.009391	1	1.6707177	3.1429194
341	2.4991918	1	2.2174926	4.3489776	1	1.7795298	1.629241
342	1.2132189	2.9451342	2.0859708	1.4751598	1	1	1.7161888
343	1	1	2.6121762	1.4062376	0.8198471	1	1.2571289

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
344	0.4545419	1	0.2408921	0.1588337	0.3917145	0.4852733	0.2867896
345	0.4103216	0.4568784	0.5145878	0.5548353	1	0.6839678	0.4072041
346	0.715012	0.4337613	0.5406266	0.5794735	0.6183737	1	0.7592046
347	0.7986269	0.4635689	0.7813498	0.634383	0.7793667	0.545599	1.1891282
348	3.6087387	2.2792063	2.404241	2.237184	1.546521	1	1.2633395
349	1.5521305	2.4608313	2.1447995	1.7260682	1	3.0005557	3.0022478
350	0.538175	0.7732763	0.5165599	0.4835043	0.5110665	1	0.4568886
351	1.3901574	3.3992494	2.5142784	1.2751932	1	2.0973193	1.2447685
352	1	1	2.3435543	1	1	1.1941654	1
353	0.6755775	1.5762054	3.8886819	1	1	1.8994544	0.5123955
354	1	1	0.2709388	0.4515428	1.3151677	1.67415	0.2213725
355	0.4542823	1	0.2050952	0.3718978	0.2445975	0.4515287	0.3807486
356	1	1	3.3759628	1.6423986	1.6737525	1	1
357	0.300579	0.5741475	0.3927922	0.4304044	0.7318581	0.5036314	0.4683878
358	3.241369	2.8606393	1	1	1.3889454	0.2543663	1.4604884
359	0.8746837	0.4718137	0.7109766	0.6855539	1	0.5414302	1
360	0.483427	0.7036659	0.3625225	0.2645917	1	1.856612	0.3250234
361	1	1	1.2057639	1	1	0.2732397	0.498822
362	1	1	8.9380032	3.5157339	1	1	1
363	2.9527103	1	1.4337033	2.2109845	1	2.5927885	2.1506854
364	1.4737388	3.8419584	2.7707241	1.4288316	0.6464353	1.5843558	1.76893
365	0.7518589	1	2.4972236	1	1	0.4896066	1
366	1.7094842	4.4697044	4.1050554	1.9474323	1.6491986	2.9455146	1
367	2.6682393	4.4289506	2.4213916	3.124198	2.2033375	1.5636831	0.2623234
368	3.1204092	1	2.5359057	2.4668111	1.2900722	1.3621051	2.9131408
369	3.0400424	1.7261507	1.215888	1.917083	0.6984704	1	1.2951686
370	0.7203553	0.4144943	0.4811734	0.7912105	2.0043917	0.5067948	1.71238
371	2.1769054	1	1.5297004	2.141514	1.5530464	1.863671	2.0105354
372	0.1626907	0.1386655	0.1757077	0.0503443	1.7426813	0.0828423	0.1180613
373	1	2.2541931	1	2.1307864	1.43176	2.2400039	1.5214174
374	1	1	4.2524986	1.450344	1.8821123	1.3480227	0.4652947
375	1.9532373	1.9894489	1	1	1.531897	1	1
376	2.0801782	1	1.5611994	1	1.6627909	1	1.2326263
377	0.2864898	1	0.7601595	0.745122	1	1.3163404	0.1790752
378	0.5013313	0.5839742	0.4823276	1	1	0.638478	0.5685938
379	0.8665061	0.5015504	1	0.6566906	1	0.6110342	1
380	0.3805111	1	0.5236998	0.5464874	1	1	1
381	0.7520629	0.4430479	0.7474745	0.6288126	1	0.5965637	1
382	2.4295633	1	1.2915667	1.6340368	1	3.1323247	1
383	0.5005686	1	0.5342218	0.372394	1	0.4940067	1.4912622
384	1.1666465	2.0549014	2.7694797	2.9509361	1.7659327	2.9391404	2.0178255
385	1	1	4.3713214	1	1	1.557333	1.2774346
386	0.7846726	0.4895354	0.6830644	0.6752479	1	0.5537366	1
387	0.7523288	0.4792971	1	0.5254854	1	0.4742418	1
388	0.7461616	0.5468972	0.3786154	0.527078	1	0.5325187	1
389	0.7425156	1	2.2065162	1	1.6059198	2.1098765	1
390	0.3560976	0.338365	0.3647814	0.5214919	0.5089645	0.4903763	0.4004841
391	0.3648099	0.5169317	0.2480083	0.1960763	0.6449265	0.5194295	0.3048148
392	3.3221208	3.1354992	1	1.7283497	1.7637146	1.8552911	1

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
393	0.4090867	0.3814317	0.3493392	0.6342918	0.7672961	0.4859751	0.5366919
394	0.7998279	0.4635211	0.6834113	0.598542	1	0.490786	1
395	1	2.7074427	2.1662733	1.5283219	1.1475203	1.7661756	0.815318
396	0.2026587	0.1600463	0.1553275	0.1674032	1.728715	0.2291045	0.2224763
397	1.4672149	1	2.4395124	2.1949703	1.4912232	1.6969409	0.846577
398	1.2942729	1	1.6206248	1	0.6982254	1	1
399	3.1727912	1.3290209	0.4025313	0.4940284	0.1252326	0.6240841	0.4174782
400	1	0.3499098	0.0949211	0.2061883	1	0.5714079	0.2853704
401	0.148127	0.3803923	0.3865201	0.7107125	0.4860097	0.3449132	0.3017459
402	0.1887723	1	1	0.1641433	1	1	1
403	0.396721	0.3450628	0.2314382	1	1	0.2516952	2.4530378
404	0.6159922	0.5644864	0.2887311	0.5192103	1	0.8216717	0.5352605
405	0.2806381	0.5442062	0.1072526	0.3333947	0.3222311	0.3327892	0.2647615
406	1.945428	6.0023984	4.0120217	1.7783654	1	1.86234	2.0891742
407	1	0.1643495	0.1921026	1.3510256	1	1.4173948	1
408	2.3218924	2.5217738	1.3964997	1.473313	1.3041029	1.5100427	1
409	0.2527189	1	0.0850566	0.1546312	1	0.1398402	1
410	5.0171621	6.2453936	4.2001208	3.7204278	1	2.7006244	1.3462117
411	0.2127062	0.2130253	0.231702	0.3068599	0.5515727	0.3757266	0.2509333
412	0.606521	0.5722918	0.7775729	0.6256036	1	0.4862107	0.8643232
413	1	1	1	0.6939285	1	1.9846289	2.1110082
414	0.0350955	0.0546861	0.0368619	0.0364996	1.5263646	0.0155338	0.0257156
415	0.0092879	0.0173199	0.0148777	0.0246028	1.5085553	0.008612	0.0158054
416	1.5177263	1	2.3204782	1.7264903	1	1.1762819	1.2450111
417	1.5773686	4.3105124	2.3756053	2.3033011	1.1194071	2.5792481	1.8023239
418	1	1	2.3914979	1	1	1	1.6805145
419	1.2092416	1.9340021	1.6081918	1.1986487	0.7792249	1.8990671	0.6476692
420	0.6469122	1	2.4864828	1.3921255	1.5118825	0.7537033	0.1052035
421	0.5405218	1	0.3274337	0.7281483	1	0.4805056	1.436095
422	1	0.5630936	0.3900612	0.2755222	0.8211109	0.6849235	0.6533097
423	1.276074	2.4802735	1.4722107	0.8355719	1.5472819	1	1.0960668
424	0.4486037	0.7843965	0.494743	0.7196144	1	0.8019519	0.451139
425	1	3.0264682	1.9134209	1	2.2132029	1.7581735	1
426	0.703449	0.5185312	0.1559584	1	0.8547178	0.8160968	1
427	4.7859118	4.5633316	2.7642035	1	1.6492759	1.5784484	2.2343824
428	1	0.5010959	0.6691238	0.6186967	0.7285309	0.5735293	1
429	1.5773958	1.6770646	2.9494092	1.7743435	1.2632228	1.8733642	2.35658
430	0.8181038	1	3.6275174	1.6089413	1	1	0.5212382
431	0.2073868	0.3141501	0.4186813	1	0.6786752	0.1431814	0.1226222
432	0.0984922	0.2388253	0.0495826	0.1267129	0.2872315	0.2520835	0.1576657
433	2.2286683	2.9417598	2.6619803	0.874633	1.4261502	1.7648369	1.9924253
434	1	0.5130215	0.6489037	0.6358111	1	0.5606801	1.2997902
435	4.1824212	1	1	4.1763766	1	1000	2.5908224
436	0.4587406	1	0.8185861	1	1	1	1
437	1	0.504139	0.6349447	0.5348635	0.8265401	0.849399	0.4785164
438	1	1	2.1264326	1	1.4753741	1.4692059	1
439	3.3296177	2.4475938	1	1	0.735585	2.2276806	1
440	2.5077558	2.3577687	1.4321494	1.3118439	1	2.2182815	1
441	1	3.6133256	2.0079705	1	1.3521146	1.836166	2.2497026

Table 4

SEQ ID	Patient ID						
NO	888	889	890	891	892	893	989
442	0.6131556	0.3399892	0.6878774	0.5815735	0.586611	1	1.2016706
443	0.7121065	0.4211673	0.5471869	0.735314	0.6971551	0.6172184	1
444	0.7639521	0.4945974	0.7564915	0.719629	1	0.5621013	1
445	1	1.643179	1	1.2549765	1	1.439681	1
446	0.5455961	0.5504439	0.4229336	0.3408378	0.5943614	0.5376128	0.4348362
447	1	1	1.3745283	2.3426562	1	1.3424986	1.4749716
448	1.549239	2.5466976	2.2119247	1.4077515	0.7221474	1.4477376	2.3821986
449	2.4111842	1.9579151	1	1.5120238	0.6999922	1	0.8823241
450	0.3622945	0.5430428	0.639571	0.581114	0.6000099	0.5004612	0.5610368
451	1.7432002	1	1.5565361	1	1.359749	1.4347067	1.3817647
452	2.6170944	1	1.5421012	1.4989598	1	2.6632246	2.958883
453	0.5637598	1	0.4127265	1	0.7169632	0.6479008	0.3613527
454	1	1	2.4076046	3.0610829	1.3618381	1.9808901	1.5957379
455	1	0.4846511	0.6748108	0.674577	1	0.6151393	1
456	0.4473729	1	0.4402295	0.432061	1	1	0.5888994
457	0.6381839	0.5993991	0.3730815	0.3794931	1	1	0.8525692
458	3.0896351	3.3729345	2.7223062	3.5826272	2.3204586	1.5559949	2.1647077
459	1.6159607	2.4134933	1.5574862	1.4673122	1	1	2.7074403
460	1	1	11.736357	4.3505853	1000	2.4890453	17.908077
461	0.6643469	0.4871504	0.7830696	0.6264472	1	0.6282822	1
462	1.6822597	1	1.9398047	2.8995565	2.8275273	1.5369925	5.1836463
463	3.1307682	2.0708837	1.9740624	2.1135656	2.0064809	2.4733695	0.7119461
464	3.8087233	2.3742768	1	1	1.7685377	2.018174	0.8663367
465	1.5319342	2.5842311	1.735325	1	1	2.074957	1
466	4.8459987	1	1.4219668	8.9572498	0.482128	0.6118887	1.8202399
467	2.451768	1.8511839	1.7660977	1.5579974	1.388997	1.7708772	2.1302949
468	2.7174618	3.9881685	2.8211105	1	1.402383	1.9131107	2.0599651
469	2.1760251	3.4282654	1	1.5719056	1	3.0799392	1
470	0.7979094	0.5012566	0.639107	0.5869542	1	1	1.2734681
471	0.2176144	0.3524919	0.1370986	0.267599	0.3707715	0.2426927	0.1638642
472	0.7332723	0.4725642	0.7865656	0.6356623	1	0.5315722	1.2507364
473	3.3723335	2.0964896	1.3825407	1	1.2174422	1.7092201	0.6772907
474	0.502764	1	1	0.805021	1	1	0.8232631
475	1	1.6779649	4.8914416	1.7820008	1	1	1.8514747
476	3.634114	2.4033272	1	2.241445	2.0850301	1.8182929	1
477	1.5796021	1.9771383	1.6481297	1.8237467	1.5267644	1.7784133	1.4785378
478	1.0495522	1	3.7686645	2.5756913	0.4142695	0.1730264	0.1794391
479	1.9880453	1	1	1.8108843	1.1958157	2.6803056	1.3364955
480	0.4518611	1	7.8246514	0.3952067	1	0.0475391	0.1651863
481	0.4270439	0.5823139	0.5463466	0.7006976	0.7456696	0.56153	0.3462145
482	0.7255545	1	1	1.465698	1.1736733	1	1
483	0.7202872	0.4667623	1	0.6544022	1.1518791	0.615029	1
484	0.5080244	0.4538757	0.3350982	0.6140481	0.647338	1	0.1866079
485	1	1	2.3957564	1.8519684	1	1.5832016	1.4186278
486	0.0428895	0.1152222	0.0972547	0.1683551	0.1043798	1	0.0201358
487	2.8848287	1.6257514	2.470049	3.0241124	1.6325886	3.1500326	1.5650247
488	0.7821834	0.4952141	0.8281505	0.6457247	1.2317696	0.6668345	1
489	1.7125244	2.7516928	2.080224	1	1.4531801	2.0275892	1
490	2.6341257	2.0727943	1	2.3733656	1.9653299	2.7311719	1.9402299

Table 4

SEQ ID	Patient ID						
NO	888	889	890	891	892	893	989
491	0.7020077	0.4838715	0.4575953	0.5049775	0.7433097	1	1
492	3.2681189	2.0072238	2.0158475	1.769896	1.7633664	1.7824003	1
493	2.0135129	0.7012361	0.8138863	1.6661161	1	1	1.6202526
494	2.8232182	3.0783046	2.5798462	2.3464708	2.1657587	1.3625321	0.6729603
495	0.1930191	1	0.0979487	0.0442842	0.1608254	0.2379431	0.1777409
496	0.4945581	1	0.4459468	0.4792252	1	0.6007858	0.5259204
497	0.4193542	1	0.4754355	0.5631904	1	0.4507826	1
498	1	1	1.5046611	1.7953216	1	2.7229586	1.7166255
499	1.6811776	2.5125197	1.7794332	2.003689	0.9297335	1.5350382	1.2962239
500	1	1	4.5464321	0.1321649	3.6129938	0.3069744	1.9843588
501	1.4596531	1.369608	1.5460966	1.3731477	1.4648896	1.446517	1.5345542
502	0.2360172	0.5555869	0.3212795	0.5056936	0.5292498	1	1.4667475
503	1.1392161	1	2.4007309	1.6864506	1	1.9866852	2.0712339
504	1.1657544	2.3430913	1.9852371	1.6610209	1	1	1.4773612
505	0.5639857	1.3957196	0.4428536	0.6601472	1.0750193	1.3805949	0.4380992
506	3.7007127	1.699464	1	1	1.4711442	1.6131709	1
507	1	2.9523912	2.1388481	1.6141642	1	2.0455938	1
508	1	1	1.5238412	2.0839359	0.3877941	1.3767755	1.379278
509	1	1	3.2449451	1.781012	1	1	1.5514391
510	1	0.8342798	0.7759992	0.7024752	1	1	1
511	2.7294619	7.6847382	12.440775	6.7119772	4.135138	6.2964143	4.1948209
512	0.332653	1	0.4073172	0.5695044	1.6273528	0.4367753	1.9070665
513	0.8346982	0.4847524	0.5315661	0.5435552	1	0.4063216	1
514	2.4019408	7.9087707	4.5847415	1.8113953	2.0345296	1.8726108	1.421078
515	1	3.0814713	2.5026288	1.2435717	1	0.7155582	1.1329541
516	1	1	2.8612531	2.1442454	1	1.403541	1
517	0.2285822	0.2277921	0.1177224	0.3434155	1.2177001	0.3696234	0.5366433
518	1	1	2.8840022	3.451799	1	1	1.6417106
519	0.8154856	1	0.6046702	1	0.6104556	3.2794946	0.4296082
520	0.3796442	1	0.1834047	0.1115521	0.1991006	1	1
521	1.7482975	1.6982997	1.2117267	1.9200022	1.2299899	1.8025569	1.3926453
522	2.5685222	1.9402134	1.7146171	1.4884378	1	1	1.3577109
523	1.6171033	1	1.4974447	2.7885944	1	1	1.2130849
524	1	0.4917724	0.7677865	0.6521538	1	0.6409575	1
525	1.5230581	2.4917069	3.3986005	2.532549	1.2286487	2.7064544	1
526	1	1.7026437	1.5080956	1.6455372	1.5602294	1.7016803	0.8252888
527	1	2.0171926	1.4407938	2.4223816	1	1.3296839	1
528	0.6711463	1	1	1.5602351	1	1.772177	1
529	0.3734494	1	0.3140514	0.2052801	1	1	0.6380016
530	0.3329545	1	0.4623673	0.4281158	1	1	0.3655133
531	1	1	2.1618431	1.5370382	2.2230812	1.5186609	1
532	1	1	1	1	2.0624751	3.7614282	1
533	0.2166902	0.2630248	0.184057	0.2761742	0.4747902	0.4027172	0.1988714
534	2.2878059	2.0479355	1.9660377	1	1.7437775	1.6824887	1
535	0.2540806	1	1	1	1	1	1
536	0.7154146	0.4714641	0.7618892	0.6961726	1.3279089	0.5486062	1
537	2.6121621	2.675402	1	2.0626296	1	1	1
538	1	1	3.6520446	1.6501133	1	2.6506637	3.3572322
539	1	1	3.1612153	2.5062114	1.4273108	2.7196643	1

Table 4

SEQ ID	Patient ID						
NO	888	889	890	891	892	893	989
540	0.63879	1	1	1	1	1.3637862	1.2917601
541	1	1	1	1	1	1.5336299	1.4777009
542	0.835911	2.0506811	1.5757273	1.3726405	1	1.2671151	1
543	0.7830807	0.4528749	0.7944273	0.712714	1	0.5563546	1
544	0.1991807	0.3431031	0.3796644	0.5158684	0.7092128	1	0.3648583
545	1	1	1	1.5806322	1.3156964	1	1
546	2.2962477	1	1.9389406	1.6689909	1	1	1.1126121
547	1.6220064	2.475576	1.7491072	1.6865714	1	2.2120343	1.759226
548	1	1	2.0264467	1	1	1.9143466	0.7346777
549	1.4627807	2.3652155	2.0097156	1.7166266	1	2.043606	1.3777982
550	1	1	2.1205826	1	1.3466983	1	1
551	0.0682166	0.1092209	0.0525621	0.0691959	0.0377593	0.0775838	0.0808465
552	0.4462098	1	1	1	1	1	1
553	0.3804858	1	0.3601914	0.3656484	0.4882923	1.4668588	0.6729603
554	0.6521606	0.4708095	0.684714	0.6402677	1.3887262	0.4400537	1
555	0.2083958	0.07867	0.0268529		3.4279506	0.014628	0.0556888
556	2.1402539	1.2045938	1.207515		1	1.1768128	1
557	0.6212814	1	0.4490317		0.8813104	1.5503704	0.5036497
558	1	1	3.3084918		0.7113359	1.2975812	1.8163705
559	1	1	1.1577884		0.7133308	1.6213149	1
560	1	1	1		1	1000	1
561	1.2728329	1.8537168	1		1	1.4436981	1
562	1.1629222	2.2862976	1.3638877		0.671035	8.1777564	1
563	0.7207088	0.4090223	0.5631186		1	0.6660442	1.8193181
564	2.2551685	2.0691373	1.6954069		1	1.3290063	1.6810361
565	0.7589191	0.4504457	0.7881406		1	0.6313121	1
566	2.4713857	1.8668009	1.5496257		1.2563152	1.8285951	1.3290962
567	7.6030041	4.1666786	4.8153659		1.1395806	7.0372489	2.925659
568	0.7097406	0.497606	1		1	0.6547133	1
569	1	0.2654781	0.4942969		0.8063244	1	1
570	0.6867522	0.2193458	0.188231		0.6836022	1	0.3798267
571	0.6331736	0.3936449	0.7474518		1	1	3.5099247
572	2.3496195	0.5715888	0.8389765		1	1	1
573	3.5520784	2.234486	1.6924211		1	2.2847506	1
574	0.8854239	0.5891876	0.4186694		1	1.3877953	0.2979613
575	1	0.3887922	0.8028658		1	0.6659218	1.5761722
576	0.6734513	0.4865924	0.8139937		0.5954716	0.5975972	0.8508952
577	1	0.4656578	0.7194793		0.6578593	0.3452932	1
578	1.4632808	2.0731272	1.8405106		1.2918299	1	2.6112858
579	0.74356	0.4303091	0.6351355		1	0.4964973	0.4999258
580	0.8573036	0.3039827	0.7551251		2.849367	0.5529148	2.0744362
581	3.5885689	1.3790007	2.3130796		1	1.7884636	1
582	2.4414267	2.38711	1.9559043		1.4523448	1.6499563	1
583	3.2098412	2.4132854	1.8414266		1	1.6036473	1.4512453
584	1	3.3947017	1.8280974		0.8536124	1.5057876	2.0075271
585	1.8530316	3.3986125	1.1231688		1.0673158	2.667911	1.6382535
586	1.0922921	1.3866858	2.5492723		1.3369775	1	1
587	0.7511801	0.280683	0.2190546		0.8459356	0.8278801	1
588	0.5620861	0.4876923	1.8393668		1.5763486	0.1201417	0.2013701

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
589	0.4223993	0.3376348	0.2208835		2.1233144	0.2306283	0.1959965
590	0.8020784	0.4444644	0.7365523		0.8896151	0.7506312	2.8576582
591	0.4712028	0.2390726	0.6019452		0.6637031	1	0.6388992
592	0.6768817	0.4756434	0.8455434		1	0.7344292	1
593	3.1693897	1.1600288	1		2.2362014	0.7562826	23.594742
594	0.484467	0.4710424	0.7167128		0.7612631	1	0.3650402
595	1	1.9323149	1		0.7937777	1.5362319	1
596	1	0.4922861	0.7464716		1	1	2.4070044
597	1	1	2.2405223		1.4097324	1	5.1924648
598	1.4670679	2.3664486	1.6155651		1	1.6004977	1.439734
599	1.4377035	0.6214809	1		1	1	1
600	13.467123	4.5645147	11.885276		0.3546965	1	1
601	0.6249588	0.3865708	0.5669759		1.5468519	1	1000
602	1.3761206	4.1201869	1.7877734		1	1	2.5081808
603	2.388031	1.7790007	1.2184707		1	2.4355764	1
604	1	1.1947735	2.6763257		2.0365992	0.8869082	5.9887023
605	0.6405284	0.4733214	1		1	0.6465963	1
606	3.3571481	2.2815385	1.6918794		1.6743421	1.4743227	1.3298604
607	1.4870925	2.7801294	3.4496167		1.5086688	2.0703444	1
608	2.1582568	0.3939899	1		1	1.8040533	1.6800293
609	1	1.6469159	2.6755515		1	0.4664011	0.265089
610	0.721404	0.8233717	0.5073933		0.5938018	0.7445702	1
611	0.4201672	0.5099065	0.4362122		1	0.3265254	0.4914955
612	0.7035018	0.542624	1		1.3129123	0.608951	1.2422818
613	0.6456145	0.4653271	0.7555414		1.140407	1	1
614	1	0.4098347	0.5138018		0.8257001	1	2.7977481
615	1	0.5625521	0.7515588		1	0.6592751	1
616	3.0845073	2.2843566	1.2990034		1.9998372	1.7182751	1
617	0.2014344	3.2781165	0.2918571		1.2700615	0.2202491	0.6297775
618	0.2352995	3.1695902	0.3142381		1.1587178	0.2775851	0.645692
619	0.6164148	0.5236449	0.6664541		0.6044249	0.4846456	0.4338658
620	0.4412712	0.5469159	1.4035455		1	0.5752398	0.1676002
621	0.2850269	0.4114306	0.2483679		1	0.5223134	1
622	1	2.8023724	2.2044128		0.5560085	1.8790879	1
623	1.0789546	1	3.2319064		2.1916606	2.4548358	0.8067178
624	2.7694574	0.3656722	0.3886252		1.6949621	1	1
625	1.5563595	1	2.1500967		1	1	1
626	0.5895935	0.5205176	0.4552166		0.6915905	0.733083	0.2287961
627	0.571243	0.3683178	0.4601706		1.780938	0.4422058	1.5308545
628	1	1	0.5179846		1.6196262	0.4649607	1
629	3.091606	1.9924371	1.5468076		1.9828026	2.0628761	1
630	2.9293973	2.9077858	7.9456382		2.9003126	1	1.5778098
631	0.216949	0.3595471	0.1729303		0.5673263	0.8741713	1.3489652
632	0.3208588	0.4550539	0.2605444		0.7698385	1	1
633	2.0500842	2.5335514	1.4640839		1	2.1614307	1
634	1.5674558	2.3964845	1		1.1658621	2.1454265	1.528283
635	0.6523473	0.4190295	0.4754385		1.9491181	0.5051338	1.5928388
636	2.5542464	1	0.6060023		0.7619153	1	1
637	1.9383622	2.0944716	1.8699989		1.2655992	1.8709449	1.736737

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
638	0.4325533	0.5068368	0.5396646		0.5855328	1	1
639	1.3304914	3.2764198	2.2090193		1.3365341	1.553918	1.9955184
640	1.1101669	3.2923293	3.5635795		1.4263696	1.4592415	1
641	0.2461762	0.4065996	0.5391102		0.5234787	0.5824607	0.4108431
642	0.7288137	0.4462545	0.7736221		1	0.6359369	1.479302
643	1	0.4769375	1		1.190498	0.5641198	1
644	1	2.1935658	4.2721395		1	1	1
645	1	2.7991517	2.0423871		0.5260025	1.8661783	1
646	1	0.5210784	0.6778459		1	0.6351563	1
647	1	0.5669303	1		1	1	1
648	1.906784	1	2.3645224		1	1	3.2098891
649	1	4.3294177	2.6868207		0.6976025	1.5274138	0.8214557
650	0.4536939	2.6772682	1.6756353		0.7053597	1.6109386	0.6873101
651	1.622928	1	1.8663202		1	1.7784618	2.0360933
652	1.7724395	1.4033573	2.2443277		1.3971323	1	1
653	1.7432764	1.2447448	0.4997415		0.8799513	0.6460709	1
654	0.290854	0.4900719	0.2070312		0.3403712	0.1101365	0.4470026
655	3.1321947	2.0090798	0.331879		0.8337018	1.7633571	2.1882156
656	0.2241758	0.3076348	0.7306541		0.3327025	0.3079837	0.2437038
657	0.3817922	0.3597915	1		0.4633597	1	0.7653181
658	1.674238	1.7001941	1.8452839		1	1.5233094	1
659	0.1780984	0.3612221	0.1656097		0.6347994	0.2640775	0.2948439
660	1	1	1.4867938		1	1	3.3378485
661	1	0.4634867	0.5282647		1	0.8537483	1.2370902
662	1	0.261064	1		1	1	1
663	0.2979527	0.3847017	0.4932656		0.3745262	1	0.3129904
664	2.7726682	2.2270669	2.2889671		1.8737849	2.1536479	1.7843109
665	1.9882725	1	4.006591		1	1	1.4019975
666	1.5570273	1.7969806	1.6486071		1.5927021	1	1.5663348
667	5.1884354	8.2847304	7.9661673		1.392952	7.974688	6.1719138
668	1.3013831	2.1216607	3.1126794		1.1415477	2.8653777	0.7905121
669	1	1.6491948	2.054123		1	1	1.4805878
670	1	1	2.9485866		1.9310229	1	1
671	0.3826979	0.4481021	1		1	1	1.311156
672	1.9687969	2.2986269	3.5723534		1.2940335	1.4070853	1.4149888
673	1.0763932	1.2285478	1.5604422		1.3676321	1.2404969	1
674	1.6654927	0.7712868	1		1	1.7621178	1.3396372
675	1	0.5576779	2.3619563		1.9293184	1000	1
676	2.192497	1.4188785	1		0.8790156	1	1
677	1	1.9761035	1.8672621		2.0597598	1	1
678	1	0.5190798	0.7090418		1	0.6576324	1
679	1.4001336	0.7108339	1		1	2.1232763	0.8663367
680	1	2.1553127	6.0728542		1	1	1
681	1	0.6051546	2.5626031		1	1	1
682	0.147435	0.3133214	0.1932676		3.9559342	0.0466735	0.1185708
683	1.4284094	2.3956937	2.9543549		1	1.7850846	1
684	0.3050331	0.6021711	0.3807799		0.5717861	0.3074492	0.3088177
685	0.5180943	0.6561179	0.640956		0.5186908	0.4565949	0.2459843
686	1	0.4509346	0.2506163		0.7303384	0.7858564	0.7252284

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
687	1	0.6139037	0.1429212		0.6625744	0.4870279	0.6801048
688	0.7084324	0.4741265	0.5165852		0.813004	0.8045647	1.6978968
689	0.6992572	0.461977	0.5098334		2.9721019	0.3822654	1.2174396
690	4.0679772	1	1		1	1	1
691	1	1	1		1	1	1
692	1	1.894982	2.1114458		0.9059071	1	1.2971822
693	1	0.5636592	0.7884009		1.1765519	0.6924752	1
694	1.7276245	1.3311143	1.2831679		1.1053829	3.4191574	0.9070935
695	1	1.378138	1.1881078		0.7254534	1.9160908	1.4942704
696	0.0422537	0.303271	0.023253		0.7521434	0.1177467	0.4323496
697	5.4768927	3.2233357	2.8159574		1.7534775	1	3.105935
698	1.116735	3.999583	2.410428		1.1429439	2.1240372	1.2156322
699	1	0.5443206	0.8628466		1.1707732	0.668791	1.2511731
700	1	1	1.9908453		1	1	2.7084834
701	1	0.5174335	0.5778499		1	0.6856222	1.6758808
702	1.4068663	1.3844357	1.8896736		0.8904505	1.8683711	1
703	1	0.5682674	0.9247982		1	1	0.5778368
704	3.096189	1.9093386	1.2936666		1.7927974	1	1
705	1	0.5634723	0.4422501		1.4608505	0.4841561	1.4166627
706	0.7234623	0.4895543	0.7940011		1.1478473	1	1
707	0.5896118	0.4956722	0.5919297		1	0.6116017	1.6399639
708	1	0.5458375	1		1	1	0.1307493
709	3.2202514	3.030683	1.4513343		1.4325332	2.2321809	1
710	1.7922354	5.3867721	2.595865		1.4060742	1.7368609	2.0451544
711	2.4955633	1	1.8772097		1	2.0659486	1.7394905
712	1	1	1		1	1.6906918	2.7147789
713	1	1.4365277	1		1	3.2445665	4.2499881
714	1	1	1		1	1	2.4520674
715	0.6570676	0.4216247	0.7434044		1	1	1
716	1	0.3446729	0.5566166		0.6041786	1	1.5351364
717	0.6447919	0.513685	0.5491483	0.5601923	1	0.6128609	0.8047289
718	1	3.2485642	1	1.5483291	2.1704507	1	1
719	1	7.6593571	11.467182	5.4516677	4.9004218	1	5.4536463
720	1	7.3999718	10.671723	4.8629477	1	4.9667129	5.8975107
721	2.5674408	3.2393424	2.5840805	2.4443521	1	1	1
722	4.52033	2.7156245	1.6790953	1.4625709	1.3000343	2.2148901	0.8187537
723	1	1	1.7233221	2.2051154	1.2460216	1	1.127072
724	0.8397477	2.1760012	2.0324579	1.3762791	1	1.6983555	1
725	0.2868833	0.4298348	0.3412235	0.1349987	0.8802035	0.5294052	0.6932498
726	1.3654236	6.117839	1	1.9858256	2.6032965	0.4570975	2.8844553
727	2.5021312	1.79637	2.1469776	1	1.7351224	1.8182422	1
728	0.3639739	1	0.3977923	1	0.758126	1	1.2870436
729	0.4125142	0.5664121	0.3759837	1	1	1	1
730	0.5943868	0.8325407	0.3752496	0.6728222	0.84208	0.7595605	1
731	1	1.3533646	0.4517345	0.316353	1	1	1.792761
732	1.384351	2.2697078	1.9722735	1	1.9989692	1.4630403	1.7016919
733	3.9442037	5.2038166	1	0.3622809	5.9814239	3.8891054	0.1984059
734	1.9101674	4.3206158	1.4246771	1.5645218	1.8886033	2.6476495	1
735	1	1	0.2928075	0.6389756	1	1	0.63306

Table 4

SEQ ID	Patient ID						
NO	888	889	890	891	892	893	989
736	1	2.153255	1	1.8584024	1	1.5838554	1
737	0.4286467	1	8.0441057	0.3354984	1.6392671	0.328566	0.4109232
738	2.7088516	3.7388562	2.9237713	2.4329819	1.9724308	2.580984	1
739	1	1	0.3820934	0.4565823	0.4977017	0.3857373	0.3863574
740	1.7062956	1	1	2.1193385	1	1	1
741	1.4697845	2.6745062	2.2331521	2.1881004	1.5394473	1.9996035	2.8574794
742	2.592985	2.6560286	1	1	2.126711	1.8762757	1
743	0.1370275	0.1391389	0.001	0.1989552	0.1444923	0.3368089	1
744	0.7028761	2.7297511	2.2484876	1.4146899	0.890635	1.7891016	1.2068691
745	2.2043403	2.9030337	2.080224	1.1664712	1.3419024	1.7114187	1.686995
746	0.0824999	0.0420767	0.0185014	0.0492952	3.4731888	0.00855	0.0651657
747	1	4.3273777	2.1476007	2.0226296	2.1306463	1.7641205	1
748	0.5825283	1	0.2161041	0.394937	0.3506192	0.6642797	0.7636327
749	0.0696556	0.0596447	0.0093281	0.0264401	0.0835938	0.1127106	1
750	0.2561481	0.3669841	0.1842876	0.2074349	0.5358576	0.3379823	1
751	1.3150937	5.4450296	2.9384	1.9588859	1.5781426	1.2504186	1.4325869
752	0.7698541	1	11.873833	1	1.2240357	0.0787569	0.2820307
753	4.8388213	7.2339229	4.0864661	3.5201157	1	3.0983829	1.462362
754	0.7450677	0.6662533	0.7626273	0.6313653	1.0312305	0.6312448	1
755	0.1246178	0.0662982	0.0405532	0.0771275	3.9627416	0.0716169	0.1473958
756	1	1	14.159535	1	1	0.0605957	0.1485075
757	2.3982885	1.506038	2.4416052	0.5876234	2.4916821	1	1.2898492
758	1	3.0636123	1.6446132	1.4215252	1.1158852	1.6547725	1
759	1	1	1	1	0.5904901	1.445683	0.7427819
760	2.2120159	4.0171394	1.6866348	1.5310061	1.6904518	3.0361901	0.7372785
761	1	1	1.1764532	1.2649135	1.8725606	1.9425248	1
762	2.805985	5.2402308	2.2727273	5.4868288	0.732034	3.9040107	1.367824
763	0.5356195	1	0.3919496	0.3466968	0.5004055	0.3629055	0.3508539
764	2.5509026	1	3.6484434	2.1467879	0.7071699	1.3174576	1.4138188
765	1	1	3.1987952	2.2229568	1	2.2815523	1
766	1.9163298	2.2470065	1	1	1.4614465	1.698621	1
767	2.7282409	1	1	1.1470856	1.4454102	2.1243141	1.5216328
768	1.9951998	1.8872424	1.1885849	1.1639714	1.2630705	1.9076805	1
769	2.1663371	2.146889	1.687481	1.5768552	1	1.9559878	0.732656
770	0.5692926	1	0.2622043	0.6679658	1.5910515	0.5294611	1.1137432
771	1.5110077	1	2.1536636	1	1	1	1.3626611
772	1	2.294629	1	1.7521961	2.1565494	1	1
773	0.5740439	1	0.4357627	0.7136576	1.7173534	1	2.0098754
774	0.2420268	1	0.6045665	0.3508554	1.4238812	0.560574	0.6333939
775	1	5.7609365	3.4404746	0.4749892	1.3063158	1	1.6691206
776	3.072719	2.1418998	2.1104822	1.603024	1.8470016	2.0487437	1
777	0.8075666	0.5663006	0.726301	0.6926895	1	0.7113576	1
778	1	1	2.91387	1.2741577	3.2710082	1.3444366	1
779	1.4050397	2.3597035	1.6057838	1	2.1585347	1	1.7754164
780	0.1583806	0.2155747	0.066933	0.1405787	0.3607895	0.352557	0.1141549
781	4.0568503	4.7869707	2.8956262	1.5281896	1.7713974	2.5268633	1.9390626
782	0.104628	0.1174322	0.0315318	0.0656512	5.9066322	0.0267921	0.1249605
783	1.7319787	6.8337192	3.2972876	3.3898224	0.8631307	2.4123247	1.3542481
784	3.9482894	2.2818831	0.5351103	2.0746291	1.9099452	2.2153416	1

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
785	0.1002438	0.3587594	0.0541177	0.1405289	0.2756558	0.3277154	0.1690058
786	1.5373148	2.1403694	2.4903321	1.382152	1.4124344	1.5393515	2.1437155
787	1	1	1.9943329	1.4096907	0.7976218	1.6749242	0.7328818
788	3.313817	1.83643	1	2.5766311	1.6044329	2.015678	1.7544367
789	0.0562489	0.0554182	0.0350409	0.1114747	0.0918472	0.1464644	1
790	1.3123016	1	1.6026537	1.8642904	1	1.473956	1.8837744
791	1.1542227	2.6818894	2.1219812	1.8150738	1.3933735	1.7477099	1
792	0.345132	0.7190151	0.6179712	0.4146334	1.3139424	0.7013628	0.7667752
793	0.1206709	0.3883802	0.3466585	0.2244352	0.5207056	0.2370381	0.5591098
794	3.279131	3.2186034	1.2589572	1.633621	1	2.0518388	1.0716968
795	0.4114474	0.5907111	0.3302099	1	0.8509875	1	1
796	0.5050011	1	0.2926118	0.5877212	1	0.5991184	1.8950756
797	1.9582129	1.7199973	1.7886377	1.4848383	1.8705235	1.8841384	1.3079436
798	1.6860735	4.7477695	4.3723545	1.1863239	1.3360079	2.5444178	1.218875
799	0.8748844	2.8573421	1	2.2003054	1.3054959	2.237083	1.387348
800	2.7968911	3.0101213	1.609206	1	2.0307943	1.517989	0.5699384
801	0.6752533	0.5044184	0.4603509	0.7823736	2.1973743	0.535788	1.8872034
802	2.4117563	5.6571236	2.2987086	3.0228178	2.3347425	2.0409828	1.3262483
803	0.6191022	1	0.244254	0.5149692	1.2935922	0.4600684	1
804	0.4182727	0.607375	1.3862964	0.6773012	1	0.5897104	0.1664448
805	2.1697798	2.3472223	1	1.6006257	1	2.0219922	1
806	3.3561257	4.2471038	2.5291451	2.2099465	1.4269851	2.0031671	2.1103359
807	1.5915015	1.5924405	1	1	1	1.6471632	1
808	1.9770032	1	1.670717	1.6792713	1.3649397	2.1642291	1.1597667
809	1.5344782	3.2485642	1.5060698	2.2221173	0.7271182	7.7233828	1.4256667
810	1.8924638	1.8313309	1.6012319	1.5830064	2.323176	1.7056873	1.4845911
811	3.2768992	2.461674	1.9677107	1.834026	1.3823804	2.0227451	1
812	3.5050353	3.0772505	1.9850241	1.6452688	1.9526301	2.1263927	1
813	1.3422828	1	1.714776	0.6969078	1.2197751	1.2898282	1
814	1.7743753	2.5466074	1.9944404	1	1.1884792	1.7524078	0.5393005
815	2.0669706	1.841086	1	1.1966985	1	1.7930875	1
816	0.731326	0.6076317	0.7791039	0.640378	1.2564621	0.7037857	1.1094445
817	0.7346208	0.6120287	0.7668953	0.6803422	1.1114132	0.7108456	1.1401555
818	0.7487021	0.6715998	0.7680096	0.6705157	1.0593461	0.8080851	1.1545344
819	0.5869914	0.4360132	0.5351219	0.5545999	1.2378409	0.5948219	0.8354915
820	0.7471305	0.4913959	0.7567313	0.5911013	1	1	1
821	2.9365965	4.3514755	2.4870678	0.9303766	1.453032	1.315809	1.624851
822	1	2.4822431	1	1.7190924	1	1	1
823	3.2159577	1.8599003	1.2094689	1.2842852	0.8820216	1.6684088	0.6805545
824	0.5846168	1	0.1914659	0.6694414	0.6513435	1	0.3086687
825	0.4201844	0.3437462	0.23857	0.2611558	1	0.4629532	0.3106966
826	2.4750519	4.4240447	2.8518799	1.9706949	1	2.4853446	3.103016
827	0.7612819	0.5943642	1	0.6282811	1	0.6441176	1
828	0.3826855	0.2681119	0.116677	0.1723772	0.6970897	1	0.8193897
829	2.8583276	2.3718484	0.6222061	1.4460669	1	1.786699	1
830	0.0301962	0.0465149	0.6933625	0.0685519	0.1756487	0.0320615	0.0253342
831	0.1629121	0.1498654	0.0730297	0.1128078	0.5138238	0.4537854	0.4167984
832	1.4995642	4.3467396	4.789497	1.6517732	1.7512392	3.054112	1
833	0.0251378	0.0259313	0.7100147	0.0650657	0.1454786	0.0268786	0.0177807

Table 4

SEQ ID	Patient ID						
NO	888	889	890	891	892	893	989
834	0.8055115	0.5669571	1	0.6731622	1	0.6361914	1
835	0.4606255	0.6760332	1	0.5001806	0.3907733	0.7939047	0.2067753
836	0.7434207	0.6106459	0.7605423	0.7326665	1	0.7347768	1.171709
837	0.7882901	0.5985208	0.775235	0.7147557	1	0.7243997	1.0336512
838	1.5628168	5.4314541	3.2516469	1.1374583	1.370641	1.5832016	1
839	3.9551177	5.5304813	3.8913404	3.0544621	1	2.0168628	1.8802703
840	1.4420505	2.7924151	1.8432614	1.3021909	1.1911027	1.5158712	0.7176198
841	1.9684947	5.7288012	3.5243727	2.0838129	1	1.6504994	2.0308053
842	1.5064541	2.5633148	1.8207206	2.3443673	1.2720534	1.8008639	1.3642856
843	0.6878349	0.512641	0.1747942	1	0.6310686	1.5584871	0.5365476
844	3.2134723	1	2.5353844	1.8286114	2.0915969	1.6099043	1
845	3.5809096	5.4732186	3.1609453	1.4650897	1.8430685	1.4626136	2.5943749
846	0.1188101	0.4025146	0.2044848	0.3089639	0.3239537	0.3716675	0.2591183
847	2.061753	2.8267822	2.5243997	1.4537781	3.3455133	1	2.1955546
848	1	1	0.5553967	0.6782119	1.1441404	1	1.2633574
849	0.7613769	0.5619097	0.7757226	0.6375793	1	0.6684549	1
850	2.6380758	2.8362617	1.5236216	1.3312845	2.1290986	2.1346084	1.2095166
851	0.1745652	0.2812142	0.1428467	0.4059703	0.2690922	0.456694	0.1735056
852	1	3.6750192	1	1	1.9206979	1	1
853	2.6370112	2.9885981	3.7598561	1.6098951	2.283439	1.9119886	1.1237829
854	1.686913	4.3905415	3.103541	1.5137743	1.2143765	1.8076048	1
855	0.6806899	1	0.7862229	0.3680882	1	0.5593571	1
856	1.4677093	2.8669136	2.1851444	1.3515686	1.4844259	1.4972801	1.1984863
857	0.3547058	0.5281772	0.2376696	0.8185812	0.6094725	1	1
858	0.157185	0.1683742	1.0604432	0.1806913	0.3344212	0.0678642	0.2277738
859	0.4366321	0.4873617	0.4313403	0.5744013	0.5681561	0.7469674	0.40376
860	0.351688	0.563098	0.1005601	0.3987148	0.3977212	0.7062253	0.157835
861	1.8433466	2.9008081	1	1.6854442	1.3247131	1.8273138	1
862	1.8433466	2.9008081	1	1.6854442	1.3247131	1.8273138	1
863	0.7676383	0.6048811	0.7673168	0.6186479	1	0.6582832	1
864	0.7021855	0.4711489	0.354051	0.4687178	0.4128342	1	0.1887767
865	0.4712903	0.6729514	1.3974228	0.3449826	0.6827987	0.1673802	0.2113137
866	3.016087	2.9126783	2.7077623	1	1.7069198	2.0697528	1
867	3.3327717	5.4470924	2.4610945	1.3772724	1.7832282	1.8706764	1
868	1	0.6075136	1	0.5855912	1	0.6807539	1
869	2.3175982	3.4993539	2.8401677	2.0368073	0.8018972	2.4055597	1
870	4.1202557	1.9682608	1.452873	0.825076	1.239876	1.6510009	0.6620529
871	2.2496598	4.5336902	2.0222379	2.6477426	2.4038978	1.5485291	1.553694
872	2.3949607	2.0982641	1.3181397	1	1.5453505	1.9687466	1
873	3.6812039	4.572038	2.3020697	1.3610517	1.8187389	1.7694353	1
874	2.6619502	2.7341114	1.6516244	1.2347428	1.5918175	1.7546717	1
875	1	2.1529326	1	1.2474163	1.1911467	1.8536031	1.440686
876	2.538233	4.0694399	2.2213535	1.3639437	3.2893636	1.2724076	3.2187019
877	0.1165699	0.1128856	0.042537	0.0923475	0.0693156	0.1237358	0.077302
878	0.231865	0.7189001	0.6391401	0.3850789	1.5232457	0.4954521	0.5861999
879	3.4087762	2.1931946	1.7473312	1.576468	1.7640071	1.5863992	1.2192793
880	1	0.5027992	0.6990084	0.6816427	1	0.6409197	0.8542554
881	0.1417805	0.1712565	0.0779406	0.1254314	0.4207021	0.3157921	0.4033237
882	0.3536677	0.4263956	0.4067597	0.3625953	0.3889465	0.3145412	0.4185284

Table 4

SEQ ID	Patient ID						
NO	888	889	890	891	892	893	989
883	0.0911027	0.1167505	0.0595386	0.0650773	0.4799011	0.2585406	0.3021193
884	5.5721458	4.2333486	1.3852064	1.3353379	1.6693354	2.834235	1.8871741
885	2.3767289	1	1	1	1	1	1
886	5.5670592	2.9133865	2.2051354	1.6751281	1.7696715	1.8305976	1
887	2.9234578	2.2331167	0.582178	1.5863851	0.7280254	2.088986	0.6470783
888	3.0251634	2.187389	1.7897192	1.1206691	2.2861917	1.9428142	1.872665
889	0.2637985	0.5079755	0.2074538	0.3645441	1	0.7996109	0.6165936
890	3.1959584	3.2966812	1	1.7083616	2.225819	1.8237866	1
891	0.905238	0.6058394	1	0.5726126	1	0.602886	1
892	0.8098831	0.5768795	1	0.6667863	1	0.641216	0.8207481
893	4.7951941	1	1.5193046	1.3412735	2.4426461	2.0727799	1
894	3.830894	1	1.5032856	1.6432777	1.941401	2.111927	0.8254789
895	4.1895085	2.1759353	2.6832159	1	0.4525339	1.2953639	0.5778805
896	3.3584667	2.2428704	2.9026685	1.789135	1	1	1
897	2.9405612	2.0534927	0.6084289	1.9949709	1.8978308	1.6101031	1.1969489
898	2.1038596	2.3952398	2.062482	1.1585666	1.5886603	1.8329137	1.3444465
899	3.417691	2.8686296	1.826473	1.3934717	1.5135559	1.7431769	1
900	4.498324	2.3124168	0.5987259	2.0035184	2.081066	2.0310002	1
901	3.5908898	1.803807	1	1	1.6088364	1	1
902	5.1905309	2.6009669	0.5624894	2.0764593	1.712223	2.5476992	1
903	0.7314956	0.5507602	1	0.615445	1	0.6239467	1
904	2.4652469	2.0035317	1.4770595	0.7603756	1.5360001	1.2521478	0.6844561
905	0.6890992	0.3998305	1	0.7987918	1.9203261	0.4982275	1.5827244
906	2.8698954	1.7605174	1	1.092307	1	1.7740095	1
907	0.1234888	0.1051191	0.0368863	0.4927494	0.1570459	0.6082181	0.7007308
908	0.4908483	0.5460663	0.455623	1	0.4724501	0.4385647	0.3952286
909	0.4373439	0.519682	0.3462773	0.4147284	0.7159286	0.6132183	0.5139199
910	0.2080666	0.3345482	0.1590702	0.2185655	0.3886945	0.3380928	0.2214833
911	0.2059979	0.3602606	0.1557804	0.2323095	0.828501	0.4243429	0.3945011
912	0.7665383	0.5555698	0.6196479	0.7185013	2.2253965	0.5673699	1.9417009
913	1	0.53119	1	0.6123865	1	0.702224	1
914	1	0.5703395	0.7476179	0.6655607	1	0.6759191	1
915	0.1087122	0.1120072	0.0258657	0.0688957	4.1578379	0.0158325	0.0617398
916	0.578414	1	0.2533778	0.6428441	1	1	1.2978259
917	2.5410533	2.1580382	0.5931967	1.6104826	0.7693655	2.0944893	0.7604444
918	0.7695303	0.547226	0.7453137	0.6247788	1	0.6291371	1
919	2.9138663	2.8872937	1	1	1	2.058187	1
920	2.6704203	3.7254872	7.623916	1.2766688	1	1.9612248	1.9715242
921	0.5008153	0.4993487	0.3603914	0.5721671	0.5572771	0.5172945	0.4337642
922	1.5578399	2.211614	2.6619803	1.356476	1.316948	1.6326023	1.8542864
923	1.9868363	2.9593186	2.0759638	1.3590346	1.3110437	1.2067652	1.3207609
924	0.099252	0.0839553	0.0255	0.0641077	5.1308785	0.0075504	0.058699
925	2.2272574	2.3168883	2.1390954	1.5293149	1.6757781	2.6419628	1.2921713
926	1	0.5638798	1	0.6383806	1	0.6963361	1
927	1.3313625	1.9186209	1.8690071	1.0998956	0.8616428	2.0500322	0.6077215
928	0.7219585	0.7118458	0.4319673	0.6966465	1	1.3443534	1.4986595
929	0.5763296	0.5253288	1	0.3719761	0.5637894	0.1074255	0.2270753
930	0.2180086	1	0.1053968	0.1905957	0.1421478	0.2832585	0.2043384
931	4.0279123	2.0294356	1.444309	1	1.3853207	1.9834816	0.6477383

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
932	10.738105	8.3525881	7.5608183	5.260374	2.4875007	1.3517401	2.8940901
933	2.5544642	1.6770646	1.9978867	1	2.1009335	2.3565181	0.4948475
934	1.3267283	1.947361	1.5800002	1.6958882	1	1.5910063	0.9204595
935	2.0250574	2.2988113	1	2.2452938	1	2.0886513	2.3367817
936	0.5425769	0.3652186	0.5518965	0.3046831	0.7913471	1	0.7899655
937	0.3584951	0.58936	0.3072268	0.4481155	0.4311311	0.3198561	0.5504854
938	1.9301989	2.2551831	1.6916086	1	1.1316704	1.6163706	0.6192725
939	3.9863133	2.1537066	1.4324821	0.8106588	1	1	0.7958325
940	1	0.552207	0.7117904	0.6064901	1	0.6171775	0.607019
941	2.9762467	1	1	0.8219736	1	3.4502818	0.8323612
942	0.0853774	0.1055799	0.0327586	0.0607411	0.3409877	0.173054	0.1543255
943	0.1724762	0.1909641	0.0778934	0.1524692	1	0.4059496	1
944	2.3878339	1	1.9763295	1	1.9066977	1.7640251	0.4323804
945	3.4619254	3.529072	1.8620934	1.1884204	2.2896012	1.8251141	0.8467891
946	0.0894629	0.103994	0.0343398	0.0676643	5.4381167	0.0145847	0.0559104
947	2.7423082	2.395559	1.5378069	1.9154188	1.5141067	1.9801681	1
948	4.3583743	1	3.1831087	1.8168952	1.530931	3.8346611	1.5605903
949	1.8428267	4.074745	2.7170086	2.0914665	1.8596799	2.2731197	0.7429002
950	1	2.9660338	3.218692	1.504902	0.7342555	1.7442496	1
951	1	1	1	0.5764364	1.2285718	0.5724566	1
952	1	3.5375812	3.9175038	2.4715601	1	1.2800776	2.0380732
953	2.5100954	2.574975	2.6996617	1.5316371	1.4417259	1.5844329	1.4626794
954	0.1942322	1	0.6715284	0.4192769	0.457592	1	0.3223603
955	0.3195411	0.5487632	0.3170222	0.2193382	0.3782425	0.6546935	0.1525627
956	3.7178589	1	1.5072355	1	0.7460387	2.3120571	1
957	2.5979926	2.3716919	1	1.4746361	1.5551717	1	1
958	1.8252872	2.1357276	2.479235	1.4001309	2.9220651	1.7020357	0.8357563
959	2.8133201	2.0407269	1.4185865	1.1634728	1.9959681	1.7535862	1.1049472
960	2.7548611	2.3683323	2.0467936	0.8396057	1.3085294	1.9321046	1.3068023
961	3.3160994	2.6181116	1	1.0796471	2.216675	2.0411106	1.2470956
962	3.2777211	2.0692743	1.7365875	1.6163443	1.3045583	2.1030024	0.7729265
963	2.9541406	1.724329	2.0612181	1.2729633	1.9810056	1.5840864	0.907004
964	1	1.4967256	2.9548268	1	1	1	1.6989747
965	2.6856297	1.4537182	2.0417672	1	1	1	1
966	2.5775688	2.4668265	1.6348031	1.5167658	1	2.0992779	1
967	1	0.7168999	0.3494497	0.6816624	1	1	0.5651218
968	4.4102747	2.3210023	1	1.4444694	2.4222295	1.6785899	1
969	1	0.5314885	1	0.6156435	1	0.6526813	1
970	4.9131488	2.2701379	1.3394466	1.1973073	0.7715796	1.9282757	0.4626504
971	1.5723799	3.3540509	2.1083175	1.2121264	1	1	1.7489222
972	0.3275479	0.3006269	0.1282627	0.3253497	0.3538236	0.5745098	0.2642097
973	0.6889383	0.4311986	0.4615915	0.7450906	1.5624637	0.6289672	1.4258008
974	0.7937829	0.5683196	1	0.6178846	1	0.6582632	1
975	0.6424237	0.4589434	0.478612	0.7028738	1.4350199	0.5736353	1.3064785
976	0.5839749	0.512652	0.5934012	0.3980046	1.1382629	0.8297134	0.6533413
977	4.6601079	3.5053258	2.4189379	1	2.2894793	3.6502281	1
978	2.8720579	3.6880278	1.4809616	1.7071225	2.0671887	2.2080635	1
979	1.9414643	1	2.198453	1.6677295	0.8800594	1.8202729	1
980	2.7480749	2.3104845	2.3463038	0.8352457	2.9802066	1.7319698	0.7136428

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
981	0.3758877	1	1	0.6226302	0.6021052	0.3799174	1.2128787
982	1.3533037	2.1449674	2.3628613	1.4525519	1.6004505	1.5131621	1.3598197
983	1	1	1	1	1	1	1
984	3.0262643	2.7136768	3.0435458	2.2929047	1	2.0448239	1.0485823
985	0.1418729	0.1766353	0.02701	0.0946345	5.7555789	0.0228109	0.1019596
986	2.0742822	1.9496319	1	1.4297574	0.8769295	1.9385392	1
987	0.1882339	0.4361428	0.2602292	0.3183542	0.6105892	0.3573692	0.2199667
988	1	0.5256361	1	0.6048328	1	0.6851467	1
989	0.5720623	0.7688272	0.1888444	0.5502178	1.1948439	0.4496942	1
990	2.0886323	2.8397348	2.6548175	1.7572545	1.197807	1.5768449	1.2403497
991	0.4703912	0.6049473	1	0.5679515	1	0.6875166	0.2870231
992	1	0.5730491	1	0.824835	1	0.5941713	1
993	0.6501074	1	0.4143187	0.5800828	1	1	1
994	2.7305211	1	1	1	3.5013847	1	2.5015983
995	0.6829106	0.5429239	1	0.6069593	1	0.6136396	1
996	2.2593835	1.4905193	1	1.1577687	1	1.5761968	1
997	1	4.1639575	2.7322574	1	1.4058749	1	0.1945563
998	1.7118194	2.8018835	1.9749581	1.5889196	0.5430262	1.599516	1.4684874
999	0.4749608	0.4632582	0.3432065	1	0.5600555	1	0.771339
1000	1	1	0.2439721	1	1	0.5429498	1
1001	0.0978471	0.319361	0.0447358	0.1316847	1	0.2322476	0.3772447
1002	0.4230095	0.4380509	0.3339052	0.3854636	0.8368288	0.5521374	0.4916564
1003	3.0535389	1.5921231	1	1.6920275	1.822543	1	1
1004	2.6787091	2.1095935	2.2476681	1.0357169	1.5493608	1.7254148	1
1005	1	0.532114	0.802213	0.6288406	1	0.7045767	1
1006	2.3376755	0.4291574	1	1	1.3292053	1	4.4824655
1007	0.1810548	0.1393925	0.1616938	0.2253592	0.2258908	0.2590893	0.0793701
1008	1	0.5684724	1	0.6123599	1	0.6357571	1
1009	1	0.5364779	0.8408164	0.6500944	1	0.6301527	0.8040887
1010	3.182062	2.8387256	2.3053688	1.6740161	1.1830604	1.879142	1.2535136
1011	0.8141357	0.5521137	0.8401291	0.6838145	1	0.6980659	1
1012	2.3570101	3.1998365	2.6647603	1.7040738	1.736992	1.3312588	1.2423951
1013	2.6543806	1.4923448	2.2246258	1.9751601	1.6741464	1.9989291	1.2433247
1014	0.7869813	0.4639488	0.705439	0.5570193	0.8330502	0.6769649	1
1015	3.351085	4.4153498	2.6058291	1	1.113092	1.7706848	1
1016	1	0.5894084	0.7719757	0.6421776	0.8086046	0.7244963	1
1017	2.2773262	1.5174503	1.8940752	1.8436031	1.7415898	1.3958777	1
1018	0.2968347	0.6444767	0.6806141	0.3787359	1.5385841	0.5322362	0.6354478
1019	2.4921789	3.8207231	2.4929329	1.2564504	2.7398551	1.7410355	1
1020	2.9584398	3.364883	5.7278217	2.5574067	1.9317749	1	1.7797667
1021	3.7919879	2.4675039	1.7542073	1.273767	1.5696333	1.7663192	0.8861453
1022	2.592838	1	2.7055842	3.3507332	1.4322468	2.1572824	1.3942689
1023	0.8168984	0.5247345	0.8126707	0.6746092	1	0.6642865	1
1024	0.6986034	1	0.3530241	0.5012494	0.5851608	0.4370739	0.8043553
1025	1	4.9102333	4.3751983	2.5417567	0.651867	1.3490269	1
1026	2.5488414	2.4948198	1	1.2858287	1	1.7255518	1
1027	3.6425069	4.1574558	3.2989046	1.3671126	1.2733471	2.0073613	1.5628825
1028	4.8002265	1	1.5109286	1.4261189	1.9093796	2.2690848	1
1029	1.6568185	3.955038	2.2118586	1.1615015	1	1.6283613	1

Table 4

SEQ ID NO	Patient ID						
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1030	0.4713631	0.284189	0.5801468	0.6680417	0.5743377	1	1
1031	3.8714257	5.5215611	2.8751497	1.3302061	1.6214998	2.0442468	1.7969572
1032	0.2553523	0.3213726	0.3440187	0.4386423	0.5367766	1	0.305825
1033	3.9530667	2.9238135	2.0524708	0.770658	1	2.0735051	1
1034	2.96208	2.6321065	1.5921022	0.7502603	1	2.1640136	0.4296832
1035	2.7378761	2.2424507	1.6041825	1.8649305	1.2545431	1.7442496	1
1036	0.3897155	1	0.3148397	1	0.4246517	1	0.3779758
1037	1	0.4231579	0.4832315	0.8600068	1.8966585	0.5342162	1.8976846
1038	1.6554093	2.9836367	2.4107421	1.1709008	1	1.2936417	1.145853
1039	2.6376194	4.9576392	4.0631303	1.795276	1.11979	2.1247295	1.4730527
1040	2.5268747	1	1.8427565	1.1945323	1	1.9624646	1
1041	1	1000	2.2697297	1.434288	1	1	1.7168901
1042	3.2764297	4.3007135	2.8438789	1	1.5310037	1.4817618	1.4842278
1043	3.5116283	2.1954719	1	1.8777258	1.953843	1.8173805	1
1044	2.1068152	2.0315001	1.1278078	1	1.1260675	0.8927623	1
1045	1	3.3878759	6.1505883	1.9866637	6.6525406	2.9056057	2.1335725
1046	0.2640444	0.2528168	0.1985242	0.3596019	0.3067003	0.4933375	0.1845611
1047	0.1116063	0.0942957	0.0306811	0.0990502	4.3618975	0.0160932	0.06705
1048	0.1119244	0.1467994	0.0964542	0.1356101	1.3259254	0.0671307	0.0675913
1049	1	3.9771369	4.2652446	1.6079887	0.8604815	0.6639482	2.5920465
1050	1	1	1	1	2.517511	1	1
1051	0.1097952	0.2513214	0.074933	0.2557638	0.3236147	0.2115532	0.163296
1052	1	0.5310645	0.7805174	0.590938	1	0.6503504	0.7610885
1053	0.747332	0.5910122	0.6396871	1	1.5896786	0.8140587	1.3377742
1054	0.4658565	0.459398	0.4649384	0.5340503	1	0.5935006	0.8602593
1055	1	0.5223895	0.573106	0.7080826	1.2317872	0.6688596	1
1056	0.6670063	0.4549441	0.4933281	0.7126564	1.660437	0.6634685	1.3460578
1057	1	0.5637206	0.6774364	0.6902721	1.187527	0.6421381	1
1058	1	1	0.4757748	0.709798	1	0.5960564	1.5762459
1059	3.922051	1.9620831	2.3198234	1.8992415	2.3148358	2.270191	0.6282695
1060	0.3692795	0.3563993	0.2791135	0.3638134	0.5022981	0.6923648	0.4585197
1061	1.2880767	1.7250738	1.8350791	1.1315705	0.7910073	1.9479808	0.7577745
1062	1	1.1177562	2.2921577	1.6218389	2.7872288	1.384318	1
1063	1.274616	2.3327512	2.3352709	1.5073435	0.6301651	1.6735053	1
1064	4.6219643	2.4548652	2.3852538	1.5644525	1.8285903	2.0532605	0.8643911
1065	3.3393414	4.3422763	2.6053703	1.7677691	1.8280978	1.7068484	2.3287961
1066	1	0.5546653	1	0.6653851	1	0.6656022	1
1067	1	3.9013798	7.2397738	4.3857143	6.6649181	4.4147812	4.3741661
1068	5.0007061	3.3803887	2.5302694	1.7604967	2.008496	1.9744707	1
1069	0.8093027	0.6942945	0.6059328	0.5498022	1	0.6119232	0.5075675
1070	1.6709821	2.870233	2.0400785	1.556109	0.8094624	1.8788171	0.6599816
1071	0.7358736	0.4743321	0.4531564	0.8018852	1.5509074	0.5101698	1.4320457
1072	1	2.4139796	4.123355	1.9623155	1.1930311	1.7052857	1
1073	6.8175523	2.1530616	2.501529	1.9765424	1.8729685	1.5488234	1
1074	0.3234721	0.5212419	0.862374	0.613099	0.8175913	1	0.4469303
1075	0.0427225	0.0681994	0.0273349	0.0204776	0.2650957	0.0879952	0.2601291
1076	1	1	1.5986374	1.7811018	1	1	1.4858277
1077	5.6321831	3.947654	2.9153624	1.5599593	1	1.7981816	1
1078	3.7155937	2.4397029	1.6959897	1.3238217	1.6807797	1.874172	1.1402412

Table 4

SEQ ID	Patient ID						
NO	888	889	890	891	892	893	989
1079	1	1	1	1	2.3124697	1	1
1080	3.505304	3.4676214	1	1	2.8487375	1.7478036	1
1081	0.4155858	0.2362767	0.1788015	0.1708502	0.1242529	0.4659044	0.2651436
1082	2.5866794	2.3688785	1.5811143	1.4292365	1.6310361	2.2745473	1
1083	2.1515104	1.6422031	1.9379758	1.4623589	1.8719897	1.9633511	1
1084	1.8979609	2.7254047	3.6538479	1.9634068	1.6303762	1	1
1085	0.2077957	0.1195964	0.0620321	0.0977846	0.0809739	0.1506257	0.0740294
1086	2.7386138	2.9727795	2.5184715	1.1531552	1.2371521	2.2222891	2.7063811
1087	0.3395932	3.1668528	0.3097928	0.2653314	1.229462	0.2923548	0.721191
1088	0.4506812	0.4767258	0.2961236	0.9058603	0.6482234	1	1
1089	0.3761304	0.3473301	0.231845	0.2535414	0.6680074	0.5318627	0.3966528
1090	1.3388645	2.571567	3.1260922	1.8985776	1.4201962	1.34391	1.4210237
1091	0.3498293	1	0.6475692	0.4505171	1	0.5897637	0.3495919
1092	1.5065533	1.4874969	2.2244921	1.7835312	2.0166622	1.7303149	1.4274787
1093	1	2.1427936	1.2168878	2.0121395	1	2.2088116	1.5067387
1094	3.5807695	2.7867863	1.7848842	1	1.6808892	1.7096235	0.4887798
1095	1	0.5319092	0.85915	0.6676942	1	0.6971105	1
1096	3.0435826	1.9038858	1.6778769	1.1732549	1.2115358	2.1121323	1
1097	1	0.5002451	0.8387007	0.5992125	1.1165905	0.6373544	1
1098	2.6615629	2.4550328	2.0724172	1.6402239	1	1.4508306	1.5340255
1099	2.9579615	2.2358253	2.8415855	2.4188962	2.540223	2.3759275	0.7743575
1100	3.6613135	2.1474662	1	1.5210788	1.9747263	1.6156095	1
1101	1.9516538	2.2422408	3.3264881	1	1.2028458	2.3018528	1.2400454
1102	2.186636	1	2.2249603	1	1.3503471	1	2.6414355
1103	1.624224	2.2922877	1	2.4179851	1	4.8173409	1.7257569
1104	2.09533	3.4925537	2.2396407	1.2437469	1.1131304	1.3434115	1.4260019
1105	0.4404372	1	0.7386772	0.4545718	1	0.575047	0.4148484
1106	2.7034878	1.3958009	2.0792303	1.245546	1	1.6166511	1
1107	2.8683656	1	1	1	1	2.1174145	1
1108	1.423803	2.5587531	3.5104952	1.3600293	1	1.456861	1
1109	0.3723003	0.4031308	0.4289151	0.6637526	0.4468049	0.468294	0.3567018
1110	5.4023456	2.1226114	1.862234	1.6774761	1.4297696	1.8886689	0.8876692
1111	3.9835358	3.4514728	2.2656296	1.3266322	3.597297	1.7747822	2.2334745
1112	2.3177743	2.0331088	1	1.3906724	1	1	1
1113	3.2615937	2.455536	2.702225	2.8657819	1	2.2692427	1
1114	0.4604724	1	0.7832602	0.5457693	0.8845141	0.6562489	0.3577686
1115	1	0.4242843	1	1	1	1	3.7523975
1116	3.436823	3.3761025	1.8967454	1.728392	2.6949657	2.1769484	1
1117	1	0.537316	0.8432597	0.6540567	1.1398022	0.6810525	1
1118	0.3679457	0.6297366	0.2505798	0.4119796	0.4347282	0.6378284	0.1319164
1119	0.3053763	0.4726171	0.2042167	0.2521723	0.4747878	0.4171129	0.2228718
1120	5.4135352	2.0534341	1.4600684	0.9157998	1	1	0.6840046
1121	2.030902	1.7156053	1.6210153	1.5552178	1	1.8460971	1.7994096
1122	2.8814665	1	1	1	1	1	0.5533254
1123	3.997986	5.3963914	1.7643291	3.9983012	1.2333541	2.1425356	1
1124	5.9205176	2.3894282	2.6075738	1.9305537	1.4065343	1.4927547	1
1125	1	2.2539104	3.3308304	1.5096316	1.1460622	1.6909549	1
1126	4.3504978	4.5977696	2.7977515	1.0890387	1.7591943	1.6759145	1
1127	3.3932237	4.2761555	2.7372097	1.3026474	1.3038197	1.5559578	1

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
1128	2.3135538	3.8199111	2.5527902	2.042877	0.7302102	1.9708297	1
1129	2.1130932	1	1.4801618	1	1	2.1757133	0.6256125
1130	9.1541997	4.7147643	1	3.3601409	3.4803125	1	4.0722463
1131	1.9211592	1.9649791	2.2573359	1.1960904	1.7084349	1.6030164	1.5092508
1132	1	0.5226972	1	0.5628582	1	0.5972578	1
1133	2.8222601	1.8205715	1	1.3070843	1.5011175	2.0480358	1
1134	1	3.1330396	1	1	2.2589203	1	1
1135	2.5468544	2.2332554	2.2529374	1.4564769	2.2071902	1.7658407	0.7165389
1136	3.5530924	2.3659161	2.2475998	1	2.0753726	1.8678358	1
1137	2.0598031	1	2.8227247	1.8037603	2.6912538	1.705598	0.7736463
1138	2.7302766	3.2729673	2.2222875	1.4662763	1	2.1399335	1.8840962
1139	2.3044618	2.0404952	1.7208774	1.425054	1.5608184	1.712048	1
1140	2.0574867	1.7979424	4.2468852	2.2348473	1.9920525	1	1
1141	4.0676739	2.6210707	1	1.8408155	1.9363288	1.7751205	1
1142	3.59781	1.8252863	1	1	1	1.4068727	0.6484134
1143	0.7738332	0.5581968	0.5632944	0.8484026	1.3076935	0.551325	1.6529263
1144	1	0.5221733	0.5161132	1	1.6986907	0.6671143	1.7897719
1145	2.9790575	1.6965763	1	1	2.6407187	1	1
1146	2.020049	1.9077761	3.1469647	1	1	1.5351467	1.8102586
1147	2.6007994	2.4376348	1.6806588	1.4281669	1.8841608	2.1051075	0.8136134
1148	2.8114179	2.2103901	1	1	0.7638876	1.6136101	1
1149	1.6008315	2.1150552	1.9141634	1.3382991	1	1.3682227	1
1150	0.2726728	0.2769502	0.1747434	0.2597618	0.4269249	0.4794172	0.1780671
1151	5.2567473	2.1172353	1.3547983	1	0.7841676	1.9055616	0.3825014
1152	1	3.647424	1	4.9700852	4.8709915	3.7596929	5.3908715
1153	1	2.9422414	4.1684164	1.9515229	0.7982637	1	2.4158053
1154	2.3514965	1.6020218	1.4648374	1.2359964	1.4535561	1.7267401	1.320804
1155	3.5378395	1.8026762	2.4105065	1	3.9117754	1.8302379	1.2871119
1156	1	0.5271045	0.8190935	0.7371795	1	0.6839893	1
1157	2.7967201	1.6602556	2.046737	1.492307	1.8870833	2.0187989	2.0884986
1158	0.7239411	0.5465271	0.6415061	0.6297885	1.2102737	0.6379594	1
1159	0.5866526	0.5257207	0.5568722	0.5552847	1.2276829	0.6331207	1
1160	0.4851807	1	0.3028957	0.5769875	0.7128852	1	0.8056589
1161	0.7975268	0.5000051	0.398858	0.7359195	1.589855	0.4899709	1
1162	0.4591205	0.647635	0.6658424	0.4739308	1.3154569	0.6134722	0.7114286
1163	0.6640479	0.5729166	0.596549	0.5569974	1.2950732	0.7213538	1
1164	4.6686699	2.7402602	2.0068269	1.2828619	1.6038342	2.2052253	1
1165	2.3746928	2.1966123	1.8460204	1.4918971	2.2998912	1.4141358	1.7771071
1166	2.7432128	1.6428786	2.9076871	2.066977	1.9518912	1.8326561	1
1167	4.4428323	3.4189721	1.8849563	1.6566173	2.979518	2.1312588	1
1168	3.9659203	2.0250909	1.2993455	1.2071943	1	2.2778056	1
1169	0.032016	0.0152808	0.8786868	0.4070116	0.271805	0.0139598	0.0157203
1170	0.4092038	0.5289817	0.4007112	1	0.8312942	1.1254739	1
1171	1	0.5369708	0.8144686	0.6233337	1	0.6414116	1
1172	0.1597552	0.1821572	0.1029691	0.2740125	0.1477614	0.0975551	1
1173	2.1651578	2.0358724	1.4488904	1	1.8177135	1	1
1174	2.2404035	3.8239748	3.1357627	2.6597107	1.3806192	2.7178503	1
1175	0.1360997	0.0731395	0.0450175	0.0841455	3.5984011	0.0466654	0.1279888
1176	0.6499827	0.4309763	0.4631023	0.8021949	2.1696839	0.5072759	1.9530495

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
1177	0.6897383	0.4481714	0.4672665	0.8196931	2.1895024	0.517393	1.8855606
1178	1	0.2774397	1	1	1.3788036	0.6465643	3.127659
1179	3.7463313	2.3518296	1.1705908	1.7043205	1.7672221	2.2645133	0.6815334
1180	2.6942514	2.1897209	2.027335	1.5403242	2.1692459	1.8069535	1.2292881
1181	2.5642742	2.9554255	2.2905968	1.7416077	2.2862322	2.2517641	1.2726357
1182	4.3735856	2.9275044	2.3614287	0.8244209	1.3886173	2.3635237	1.6906395
1183	3.0945475	2.3168136	1	1	2.1939723	1.8576701	1
1184	3.142923	3.2814828	1	1	2.9478479	1.7156072	1
1185	2.4574323	1.7957418	2.3114178	1.4575292	1.6194635	1.6148891	1
1186	5.2798059	2.4322741	1	1.7194691	1.8616127	1.5150258	1
1187	3.8765115	2.7837648	2.082097	1.2652308	2.0137965	1.741175	1.2679398
1188	1.3746362	2.4786487	2.7514586	1.5301103	1	1.3989029	1.1469473
1189	1	0.4818801	1	1	1	0.7618238	1.0471249
1190	0.4456034	0.7032047	1	0.5916907	1	0.7630276	0.2816385
1191	1.2758604	1.5922289	1.8970372	1	0.8395746	1.9479808	0.6524136
1192	0.1801782	0.1858069	0.0919611	0.0974172	0.520149	0.3562229	0.3980155
1193	1	0.5074377	0.7924451	0.627717	1	0.6696909	1
1194	0.508643	0.5367984	0.3668648	0.4049621	0.675945	0.5113423	1
1195	3.8715895	2.5374392	1.6461499	1.6922303	2.1510458	1.8981824	1
1196	0.7546313	0.368387	0.4304195	0.5331914	1.0676251	0.596329	0.8008292
1197	0.5161857	0.6402238	0.3458856	1	0.4983769	1	0.4469056
1198	0.6401937	0.3822734	0.5294856	0.5914528	0.8598446	0.6188295	0.7251489
1199	0.1292881	0.1668265	0.0599936	0.0638021	1.4513804	0.0371152	0.0674027
1200	1	0.4534091	0.6230181	0.6216873	1.2461661	0.635534	1
1201	3.9319973	2.4552844	1.5499503	1.3320882	1.2634789	2.2270718	1
1202	1.5555088	2.8812763	1.7222793	1.4760232	1.0338678	1.4650787	1
1203	0.3980381	0.22925	0.1731735	0.1652148	0.14384	0.4129699	0.3963185
1204	2.8176528	3.9374918	2.7299391	1.7574732	1	2.562218	2.9337074
1205	2.285234	1	1.3138335	1	1	1.534713	1
1206	2.8854656	3.5419385	2.5705259	1.8924714	1.4595443	2.3983031	1.9624974
1207	4.1539332	2.6726171	1.6682687	1.7811917	2.1577402	1.9182332	1
1208	5.7605741	4.5157491	1	0.3981842	4.9497006	4.9975526	0.1744167
1209	1.7324379	1	1.1591668	1.4924648	1	1.7754105	1
1210	1.0986227	1.9900547	1.1807143	2.0982408	1.3405771	2.0890529	1.6394107
1211	5.3681073	3.4179968	1.8959678	2.0899808	1.7591943	1.8935512	1
1212	1	0.466932	0.7634298	0.6873826	1.2932549	0.654904	1
1213	4.9047192	2.0616193	0.5510786	1.9789244	1.7003481	2.4861976	1
1214	3.2582247	2.0740501	1	2.0264026	2.3888024	2.1943142	0.5796367
1215	1	0.523962	0.8555244	0.6292441	1	0.6510453	1
1216	5.4496555	2.2868189	0.5689945	2.013287	1.6130221	2.5598034	1
1217	2.5570347	1	1	1	2.4141581	1.9252008	1
1218	1.6250318	2.5842311	2.248351	0.6494068	3.0556227	1	3.0010639
1219	0.1732976	0.1067804	0.0829383	0.1721045	0.5543593	0.2345547	0.0391149
1220	2.5194282	1	3.0544757	1.2588248	1.6084351	2.8305433	0.6635341
1221	2.588436	2.2048988	2.8243408	1.6641527	2.0339332	2.22464	1.2300111
1222	0.1176218	0.0825109	0.0300034	0.0719069	4.6084944	0.0144217	0.0882524
1223	1	1.9357206	5.2708689	7.0370739	3.3372884	1.506971	3.3867545
1224	2.1194578	2.1130037	1.6620859	1	1.3152691	1.7255062	0.5945874
1225	4.4793809	2.5383351	1	1.436418	2.7687378	3.2129059	1

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
1226	0.0584969	0.0963024	0.0463612	1	0.2238834	0.0560895	0.0439884
1227	0.632247	0.2364337	0.1883431	0.2574255	0.7055604	0.4057526	0.8260579
1228	2.7353383	1	0.6301218	1.1315161	2.3674457	1.8303921	1
1229	2.5003531	1.7606898	1	1	1.2348894	1.9541117	1
1230	4.3084927	1	2.3866386	1.8389936	1.765166	2.5893901	1
1231	1.8416395	2.2642035	1.7723582	1.2403822	1.2671039	1.5334135	1
1232	0.6622356	0.4134693	0.2783795	0.2204131	0.7511971	0.4248074	0.2869926
1233	2.7964636	2.2797123	1.5810805	1.4717776	1	2.1841689	1
1234	8.1662129	8.833955	4.3210352	9.8164882	1.4808633	6.3702437	2.3257598
1235	1.5730288	2.4028452	1.4013394	2.2712213	0.7431967	7.9922857	1
1236	0.4351429	0.5571629	0.256703	0.4690354	0.657095	0.3103087	0.2479974
1237	1.7999315	3.2735634	1.5418763	1.1401398	1	2.0161144	1
1238	0.5998749	0.3983969	0.4269477	0.715335	0.7624604	1.3751492	0.652361
1239	3.6355583	2.0405531	1	1.5957062	1.7004378	1	1.4886541
1240	3.2767818	2.7685418	1	1	1.829109	2.1704979	1.8332678
1241	5.5353938	2.0474105	1	1.4790532	1	1.9300454	1
1242	3.7517089	1.9429926	1	1	1	1	1
1243	3.5992256	2.0065515	1.9345811	1	1.5724084	1.7083691	1
1244	4.4671314	1.9612267	1.7383417	1	1.4456695	1.702658	1
1245	2.7752538	1.8031735	1	1	1	1.8592595	1
1246	4.0432229	3.1734231	1	1	1	2.2128602	2.6327213
1247	2.5100265	1.6235851	1	1	1.4285975	1.9184026	1
1248	1.8600634	1.8992583	2.3660345	1.5227846	3.3501195	1.918459	1
1249	2.7442003	2.0458956	1	1	1	1	1
1250	1	0.5212003	0.7595041	0.6374815	1	0.6474247	1
1251	0.8467433	0.4201802	0.4067664	0.77419	1.9529258	0.5025366	1.6526786
1252	0.7552793	0.4281198	0.5942065	0.4566886	0.7169435	0.4756778	0.5854332
1253	2.095426	2.3189809	1	1.6920681	1.8655716	1	1.7918341
1254	2.8304687	1.8271419	1	1	1.8996479	1.7729963	1.7130833
1255	2.9641916	1.9774102	1	1	1.9734873	1.1675605	1
1256	2.9959362	1.6935788	1	1	1.8181491	1.2339695	1
1257	0.5145337	0.5011867	0.5185509	0.5894482	0.8193471	1	0.6026431
1258	1.6575089	3.4121565	1	2.0948171	1.455722	1.883322	1.7499315
1259	0.7293494	0.4605339	0.4361608	0.3912887	0.5788206	0.5264809	1.2087573
1260	1	0.4252581	0.6388918	1	1	0.6829861	1.6082414
1261	1	0.4894754	0.7527438	0.6180793	1	0.6566388	1
1262	3.4516061	2.6795902	1	1	2.5745044	1	1.6053255
1263	1.2118688	3.4366235	4.1339513	2.4961997	0.8235803	1.1173721	2.5823895
1264	0.4321621	0.6195073	0.6117739	0.4462886	1.4941432	0.5710726	0.7782576
1265	0.7253417	0.7141865	0.4880441	0.4214365	1	0.7174955	1
1266	0.5580542	0.5938732	0.608539	0.4952863	1.4149295	0.5962745	0.8633083
1267	1	2.1733041	1	1	1.6047323	3.1965224	1
1268	1	3.442383	4.5506259	3.2718595	0.8284212	1.3113097	2.5430836
1269	8.2479413	2.3283692	1.7088755	2.7154559	3.2802437	6.71955	2.7602685
1270	3.7989168	1.6503461	2.4283844	1.2884566	1.6933152	2.1042921	1.5236779
1271	18.428267	11.173566	8.2137561	6.647524	2.4278385	1.7164203	4.1287995
1272	0.8586412	0.4624179	0.4783181	0.7487249	1.6360851	0.5821486	2.1361651
1273	1.7738592	3.5825348	3.0410442	1.9441615	1.8405432	2.0224313	1.756698
1274	0.1531062	4.3404411	0.2911325	0.2482038	1	0.2036285	0.6864199

Table 4

SEQ ID NO	Patient ID						
	888	889	890	891	892	893	989
1275	1.7898242	1	0.5807433	0.4684722	1.3015694	1	1.1446204
1276	0.5738675	0.4625578	0.366378	1	1	1	1.8273852
1277	3.8082477	2.6387728	1.7657184	1.3212207	2.0686146	1.6778123	0.7159721
1278	3.9313214	1.7183939	1	1.2304609	1.3984807	2.3457496	1.1866214
1279	7.6174467	3.2783404	1	1	2.1327253	2.4079587	2.7735858
1280	2.0815983	1.3254923	1	1.2160929	0.806007	0.4266535	1
1281	2.5993952	2.6888105	1.450026	1.0589541	2.7766067	1.7566575	1.5135257
1282	4.3198865	3.9392179	2.7525845	1	2.2588411	1.739224	2.6371285
1283	1	0.4975481	0.7596367	0.57878	1	0.6259477	1
1284	4.1115519	2.2764638	1	1.6825124	2.3835043	1.8869197	1.3561558
1285	3.1822834	1.9746944	1.9208215	1	2.1373204	2.8201356	1
1286	1.6764022	1.6562394	1	1.4999788	1	1.9830593	1
1287	1.5999636	1.9209792	3.2423858	1.9900231	1.6179803	1.6193014	1.7436178
1288	1.8659062	2.2971953	1.6182856	2.2031201	1	1.3974037	1
1289	3.7044593	1	1	2.3015744	2.2559565	1.9264524	1.7397415
1290	1	2.2396563	1	2.5255741	1	2.03119	1.9497846
1291	3.9911831	1.9433077	1	2.147702	2.4486291	2.3816562	1
1292	0.1408241	0.1284479	0.0878548	0.056648	3.6349146	0.0346367	0.3653658
1293	0.6903473	0.6340073	0.7171017	0.6364415	1.1709965	0.6234276	1
1294	2.1495892	3.1989822	1.5186186	1.2762535	1.6801008	1.5799785	1.3003023
1295	0.7048637	0.6177665	0.7497845	0.6054915	1.2462263	0.5854999	1
1296	1	1	0.2692804	0.3511363	0.7372906	0.3685432	0.2734408
1297	0.2572459	1	0.3194128	0.7560038	1	0.4519106	0.5561362
1298	1	1	1.5179644	1	1	1	1
1299	1	1	1	2.1690781	1	0.6252273	1.3990499
1300	0.7556162	0.4985626	0.729883	0.6705921	1	0.5892786	1
1301	0.8852216	2.106441	1	1.5130606	1	1.3318299	1
1302	0.4889279	1	0.6818433	0.2377617	1	0.5416417	0.4307848
1303	0.2267066	1	0.4667478	0.6182308	0.5572727	1	0.2768187